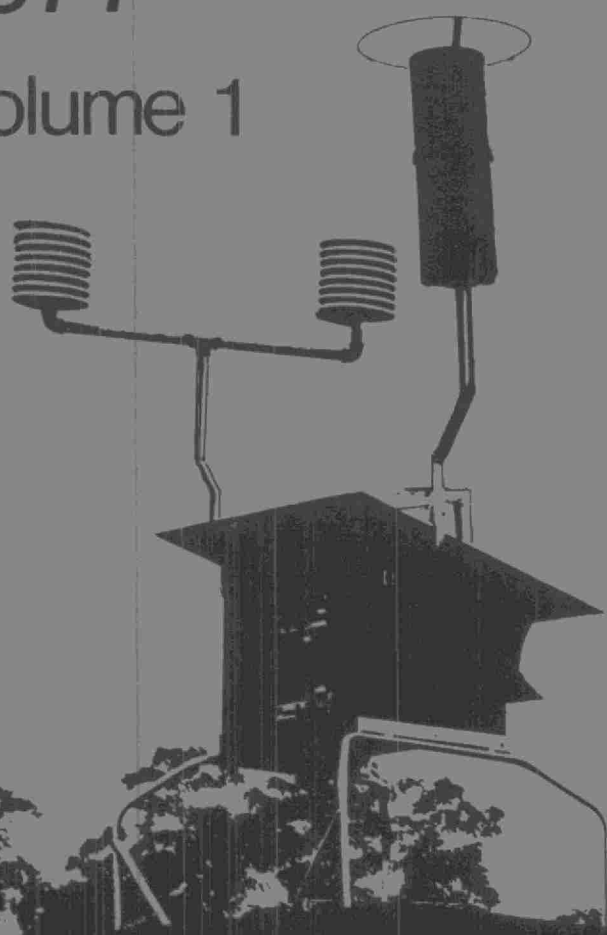


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# AIR QUALITY MONITORING REPORTS 1977

Volume 1



AIR MONITORING STATION



Ontario

Ministry  
of the  
Environment

Hon. Harry C. Parrott, D.D.S.,  
Minister  
Graham W. S. Scott,  
Deputy Minister

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# AIR QUALITY MONITORING REPORT

## ONTARIO 1977

### VOL. 1



Ontario

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Environment

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# Introduction

This report, Volume 1, contains a summary of 1977 air quality data obtained by continuous monitoring instruments operated by the Ministry of the Environment at 96 locations across Ontario. In addition, a summary of sulphur dioxide data from 47 stations operated by Ontario Hydro in the vicinity of their power generating stations has been included.

As in previous years, the monthly summaries of hourly data are given in the remaining four volumes of this report: Volume 2, sulphur dioxide data from 67 stations; Volume 3, soiling index data from 56 stations; Volume 4, carbon monoxide, hydrocarbons, ozone and total reduced sulphur from 19, 15, 23, and 11 stations respectively; Volume 5, the oxides of nitrogen NO, NO<sub>2</sub>, and NO<sub>x</sub> from 17, 20, and 17 stations respectively.

## Sampling Stations:

Table 1, lists the stations in the Ontario monitoring network with continuous sampling instruments. The first seven columns give the name of the region, the station identification number and address, its bearing on the Universal Transverse Mercator (UTM) Grid, the height of the station above mean sea level, and the height of the air intake above ground. The last seven columns indicate which of the pollutants, total reduced sulphur (S), sulphur dioxide (SO<sub>2</sub>), soiling index (COH), ozone (O<sub>3</sub>), carbon monoxide (CO), hydrocarbons — total or reactive (HC), nitrogen dioxide (NO<sub>2</sub>), nitric oxide (NO), and nitrogen oxides (NO<sub>x</sub>), are being monitored at that station.

The largest number of stations in a region is 24 in the Central Region. The most monitoring instruments (94) are also found in the Central Region. Figure 1 shows the general location of the sampling stations across Ontario as well as the number in each region and city. Figures 2, 3, 4, and 5 show the locations of the sampling stations in Toronto, Hamilton, the Sudbury area, and Windsor respectively.

## Criteria for Desirable Ambient Air Quality

Table 2, outlines the Criteria for Desirable Air Quality in Ontario for those contaminants reported in this report. The criteria are given in units of parts per million by volume and micrograms per cubic meter of air for the sampling time appropriate for each contaminant; 1 hour, 8 hours, 24 hours, or 1 year. The unit for soiling index, a measure of suspended particulate matter, is Coefficient of Haze (COH) per 1000 feet of air sampled.

These criteria serve as a convenient yardstick by which the Province may estimate its success in achieving goals for desirable ambient air quality.

## 1977 Measurements

Acquisition and processing of air quality data in Ontario is the responsibility of the Air Quality and Meteorology Section of the Air Resources Branch. The instrumentation, however, has been installed and maintained by the Technical Support Group in each of the six regional offices since the Ministry decentralized many of its operations in 1974.

Data are acquired in two ways. Data from stations in areas which have a publicized Air Pollution Index are telemetered in real-time to the central data acquisition facility in Toronto where they are digitized, stored on magnetic tape, and then computer processed. All other data are recorded locally on analogue charts which are later read and digitized by the Data Analysis Group in Toronto and then processed by computer in the same way as the telemetered data.

In this Volume, the annual summary of hourly readings for each station and contaminant is reported in a single line giving the number of days on which valid data were monitored, the percentile distribution, the arithmetic mean, the maximum 1-hour and 24-hour readings, and, where appropriate, the number of times the air quality criteria were exceeded.

## Analyses of Data

### Sulphur Dioxide (see Table 3)

Inventoried emissions of sulphur dioxide in 1977 were approximately 2.0 million tonnes, of which 1.4 million tonnes were emitted in the primary smelting of nickel, copper, and iron in the Sudbury and Wawa areas. Thermal generating stations are the largest sources of SO<sub>2</sub> in southern Ontario accounting for 0.41 million tonnes annually. The remaining 0.19 million tonnes are emitted by industrial, commercial, and residential fuel users as well as refineries, coke ovens, and other industrial operations. It should be noted, however, that community air quality is, on the long term, affected more by small, nearby sources emitting at low elevations than by large and distant sources emitting from tall stacks.

Of the stations in the Ontario network, four recorded annual average levels above the 1-year criterion of 0.02 ppm. These stations were located in Windsor, Sarnia, Hamilton and Wawa. Fifteen stations reported days exceeding the 24-hour criterion of 0.10 ppm; the 1-hour criterion of 0.25 ppm was exceeded at twenty-six stations.

The highest annual average was recorded at Lucie Pit

in Wawa (0.050 ppm) as was the highest 24-hour average (0.86 ppm) and highest hourly average (1.99 ppm).

One station in the 47 station Ontario Hydro network exceeded the annual criterion; four exceeded the 24-hour criterion. The 1-hour criterion was exceeded at twenty-two locations.

## Suspended Particulate Matter

### Soiling Index (see Tables 4 and 5)

Traditionally, the public has identified air pollution with black or dark smoke. Improved combustion technology and an increase in the use of fuels other than coal has eliminated black smoke as a major pollutant. Fine particles of smoke from combustion and dust from construction, grinding processes, and transportation constitute what is termed "suspended particulate matter". The soiling properties of a sample of suspended particulate deposited upon a filter are measured by the reduction of light transmitted through the soiled filter and is related to both the opacity and darkness of the deposit. This evaluation is carried out on 1-hour or 2-hour samples and is known as the soiling index, the Coefficient of Haze (COH) per 1000 feet of air sampled.

The annual average criterion of 0.5 COH/1000 ft. was surpassed at five locations, two in Hamilton, two in Toronto, and one in Windsor. The maximum annual value (0.63) was recorded at North Park in Hamilton. The 24-hour criterion of 1.0 COH/1000 ft. was exceeded at twenty-two stations but only four did so more than ten times during 1976. These were North Park, Hamilton (59), Bathurst-Wilson North York (32), Evans-Arnold, Etobicoke (25), and Barton-Wentworth, Hamilton (24).

### Carbon Monoxide (see Table 6)

In terms of total weight and concentration, carbon monoxide leads all other contaminants in city air. Mobile sources, trucks and automobiles, are almost exclusively responsible. Although pollution control equipment has reduced the output per car, the increase in the number of vehicles on many streets has limited the overall reduction.

The highest level of carbon monoxide on an annual average was measured at 67 College St., 2nd Floor, in Toronto with an average of 2.8 ppm. All stations met the 1-hour and 8-hour criteria. The highest reading for one hour occurred at the St. Catharines station — 23 ppm. The highest 8-hour period (11 ppm) came at Lawrence-Kennedy in Scarborough.

## Hydrocarbons (see Tables 7 and 8)

Hydrocarbons are emitted naturally from trees and vegetation; they are also emitted by vehicles, gasoline storage tanks, and filling tanks.

Two types of measurements are made of hydrocarbons in Ontario. The first uses flame ionization techniques to measure all hydrocarbons and is reported as total hydrocarbons. Methane, however, does not participate in the number of photochemical reactions which form oxidants. Thus, techniques have been developed to remove the methane fraction from the total hydrocarbon measurement. This measurement has been termed reactive hydrocarbons.

There are no criteria for total or reactive hydrocarbons in Ontario. The highest annual mean level at the fifteen total hydrocarbon monitoring locations was 2.53 ppm at Science Centre, Don Mills, North York. The maximum annual mean level reported from the limited reactive hydrocarbon data was 1.89 ppm at Barton-Wentworth in Hamilton.

### Ozone (see Table 9)

Ozone is a naturally occurring constituent of the upper atmosphere. In the lower atmosphere, it is a secondary product of the photochemical reaction among reactive hydrocarbons and nitrogen oxides. In the upper atmosphere ozone plays an important role in the maintenance of life on the ground by absorbing harmful ultraviolet radiation. In the lower atmosphere, however, ozone is detrimental to the health of man and plants as well as enhancing damage to various materials.

Since time is needed for the afore-mentioned photochemical reactions to be completed, ozone is often found some distance from the source of its pollutant precursors. Thus, high concentrations of ozone which occur at rural locations such as Simcoe and Stouffville are not indicative of natural or local sources but the transport and reaction in the presence of adequate sunlight of the ozone precursors from upwind urban sources.

The highest annual average ozone concentrations measured in Ontario were at the rural locations Simcoe (0.034 ppm), Huron Park (0.030 ppm), Orono (0.028 ppm), and Merlin (0.028 ppm). The maximum daily average occurred at Simcoe (0.089 ppm). All but two monitoring stations exceeded the Ontario ozone criterion for one hour of 0.080 ppm. (The two meeting the criterion had limited summer sampling). Three stations exceeded the criterion over 200 times: 471 University Avenue, Windsor (259), Simcoe (212), and Merlin (202). The highest single hour measurement occurred at Orono — 0.176 ppm.

## Total Reduced Sulphur (see Table 10)

The first extensive monitoring of total reduced sulphur began in Ontario in 1976. Most of the total reduced sulphur may be found in the form of hydrogen sulphide. In the vicinity of pulp and paper mills and refineries, significant concentrations of mercaptans and other reduced sulphurs may be present, however.

Maximum levels of total reduced sulphur occurred at Portage-Church in Fort Frances for all averaging times. The values were 15.4 ppb for 1 year, 132 ppb for 24 hours, and 480 ppb for 1 hour. Five of the eleven stations had hourly values which exceeded 100 ppb. No criteria have yet been set for total reduced sulphur.

## Oxides of Nitrogen (see Tables 11, 12, and 13)

The oxides of nitrogen ( $\text{NO}$  and  $\text{NO}_2$ ) are generated by natural as well as anthropogenic sources. Nitrogen and oxygen, which are the principal constituents of the atmosphere, combine during high temperature combustion to form nitrogen oxides ( $\text{NO}_x$ ). The high temperature combustion to form nitrogen oxides ( $\text{NO}_x$ ). The main sources of  $\text{NO}_x$  are automobile exhausts, power plants, incinerators and chemical processes.

No evidence exists that nitric oxide ( $\text{NO}$ ) at the concentrations measured in the atmosphere has any direct adverse effect on health and welfare. Photochemical oxidation of nitric oxide to nitrogen dioxide ( $\text{NO}_2$ ), however, does occur under certain conditions, nitrogen dioxide is known to affect health as well as visibility. The nitrogen oxides also play an important role in the photochemical reactions involving ozone and other oxidants.

The highest annual level of nitrogen dioxide (0.052 ppm) was measured at the Barton-Wentworth site in Hamilton. The highest 24-hour averages (0.15 ppm) were measured at Bathurst-Wilson in North York. The maximum 1-hour concentration (.27 ppm) was measured at the Bathurst-Wilson site. The established criterion for 24-hour average of  $\text{NO}_2$  (0.10 ppm) was exceeded at four sites, though none on more than 4 occasions. The hourly criterion was exceeded at one site.

The maximum nitric oxide levels occurred at Pharmacy-401, Scarborough for all three averaging times: 0.152 ppm for the year; 0.65 ppm for a day; 1.88 ppm for an hour.

Nitrogen oxides, essentially the sum of the  $\text{NO}$  and  $\text{NO}_2$  levels, were again highest at the Pharmacy-401 site. The annual average was 0.191 ppm, the daily average was 0.70 ppm, and the hourly level reached 2.03 ppm.

The high levels reported at both the Pharmacy-401 and Bathurst-Wilson sites are related to high traffic density near the monitoring locations.

## Ontario's Air Pollution Index

An Air Pollution Index (API) based upon the 24-hour average concentration of sulphur dioxide and suspended particulate matter has been in use in Ontario since March 1970. Air Pollution Index stations were established in Toronto and Hamilton in 1970, Sudbury and Windsor in 1971, Welland and Niagara Falls in 1974, Coniston in 1975, New Sudbury in 1976, and Sarnia in 1977. A station opened in 1971 at Happy Valley was discontinued in 1975. The API at all stations have a common basis; at an API of 32, the desirable air quality criteria for sulphur dioxide and soiling index on a 24-hour average are exceeded. When the API exceeds 50, health effects may increase in incidence, especially for the elderly and those with respiratory problems.

At an API of 32 with adverse weather conditions expected for the next 6 hours, suspected offending industries are alerted and may be asked to cut-back on their operations. At an API of 50 with adverse conditions expected for 6 hours, the Minister may order curtailment of industrial operations, and a shut-down may be ordered by the Minister if the Index exceeds 100.

Of the nine stations operational in 1977, none exceeded the level of 50, and four exceeded 32. Hamilton was on an advisory alert on ten occasions, Toronto on four occasions, and New Sudbury and Windsor once each.

The history of the Index stations and the number of times the Index equalled or exceeded 32 and 50 for the years 1970 to 1977 are given in Table 14.

**Table 1/1977 Stations with Continuous Sampling Instrumentation**  
*(Pollutant data abstracted hourly or two-hourly)*

REGION	STATION NUMBER	NAME OF STATION	UTM GRID		SITE ELE- VATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	POLLUTANT MONITORED								
			EAST	NORTH			TRS	SO <sub>2</sub>	COH	O <sub>3</sub>	CO	HC	NO <sub>2</sub>	NO	NOX
SOUTH WEST	10001	College of Agric. Tech., Huron Park	04600	47931	243	5					x				
	12002	City Hall Windsor	03323	46867	183	15				x					
	12008	467 University Ave. Windsor	03316	46867	183	11		x	x	x	x	x	x	x	x
	12010	Manning Road Pump Station, Windsor	03460	46875	182	1				x					
	12013	Wyandotte St. Windsor	03358	46874	183	6		x	x						
	12014	Univ. Met. Stn. College/Calif. St. Windsor	03304	46849	183	1				x					
	12015	Hwy 18-Prospect Windsor	03283	46833	175	4		x	x						
	12016	College-South St. Windsor	03290	46841	183	4		x	x						
	12032	Morton Dock Windsor	03271	46817	177	4		x	x						
	13021	MOE Pump. Stn. Middle Rd., Merlin	03991	46776	190	3					x				
	14004	Hydro SS Concession 14/15 Courtright	03808	47343	183	3			x						
	14016	Lambton G.S. Hwy. 40 Courtright	03793	47397	180	4			x						
	14049	156 Victoria St. Sarnia	03854	47584	183	4		x	x	x	x	x	x	x	x
	14118	PUC Water Pump Stn. Hwy. 21 Petrolia	04027	47564	206	4					x				
	15001	King-Rectory London	04818	47595	259	4			x	x	x	x	x	x	x
	15003	362 Dundas St. London	04801	47590	251	17				x					
	18001	MacKenzie RR2 Tiverton	04541	49030	220	4		x	x						
WEST CENTRAL	21006	Post Office Brantford	05597	47763	221	16			x	x					
	22011	Deamude Port Maitland	06188	47494	177	2			x						
	22023	Wray Minor Rd. Port Maitland	06185	47467	177	4			x						
	22071	Experimental Farm Simcoe	05597	47449	236	4			x		x		x	x	x
	26001	Public Utilities Substation, Waterloo	05397	48128	336	2					x				
	26029	Edna/Frederick St. Kitchener	05427	48116	325	5			x	x	x	x		x	
	27013	PS Victoria/Leader Niagara Falls	06570	47752	175	5			x	x					
	27027	PS 301 Beatrice St. Welland	06432	47587	183	3			x	x					
	27037	North/Geneva St. St. Catharines	06431	47805	107	5			x	x	x	x	x	x	
	27038	Rosehill/MacDonald Fort Erie	06649	47495	178	4			x						
	29001	Hughson-Main Hamilton	05918	47894	99	9					x				
	29008	North Park Hamilton	05984	47927	79	3		x	x	x			x	x	x

Table 1/1977 – Continued . . .

REGION	STATION NUMBER	NAME OF STATION	UTM GRID		SITE ELE- VATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	POLLUTANT MONITORED								
			EAST	NORTH			TRS	SO <sub>2</sub>	COH	O <sub>3</sub>	CO	HC	NO <sub>2</sub>	NO	NOX
WEST CENTRAL	29009	Kenilworth-Roxborough													
		Hamilton	05967	47884	92	9			x						
	29012	Burlington-Wellington													
		Hamilton	05931	47914	84	4			x						
	29015	Merrick St.													
		Hamilton	05917	47900	92	17			x						
	29017	Chatham-Frid													
		Hamilton	05898	47896	99	5			x						
	29025	Barton-Wentworth													
		Hamilton	05939	47900	92	4	x	x	x	x	x	x	x	x	x
CEN- TRAL	29026	Brampton-Woodward													
		Hamilton	05996	47895	84	4		x							
	29067	450 Hughson St.													
		Hamilton	05925	47913	84	5			x						
	29080	City Hall													
		Hamilton	05914	47895	107	9		x							
	31001	67 College St., 5th floor													
		Toronto	06300	48352	104	20		x	x	x	x	x	x	x	x
	31090	67 College St., 2nd floor													
		Toronto	06300	48352	104	4					x				
	31105	Sherbourne/Wilton													
		Toronto	06317	48338	76	5		x	x	x	x		x	x	x
	33002	Pharmacy-Hwy. 401													
		Scarborough	06357	48473	175	2		x	x		x	x	x	x	x
	33003	Lawrence-Kennedy													
		Scarborough	06389	48452	168	3		x	x	x	x	x	x	x	x
	33019	Met. Branch. Scar. Bluffs													
		Scarborough	06422	48411	152	3		x	x						
	34002	Science Centre													
		Don Mills, North York	06338	48419	107	9		x	x	x	x	x	x	x	x
	34007	Bathurst-Wilson													
		North York	06261	48437	214	2		x	x		x	x	x	x	x
	35003	Elmcrest Rd.													
		Etobicoke	06142	48338	152	4		x	x	x	x	x	x	x	x
	35005	Queenway Hospital													
		Etobicoke	06159	48293	107	9		x	x						
	35008	22-36th St.													
		Etobicoke	06190	48281	92	2			x						
	35033	Evans-Arnold													
		Etobicoke	06192	48302	107	3		x	x	x	x	x	x	x	x
	35050	MOE Lab.													
		Resources Road													
		Etobicoke	06175	48405	152	18		x	x						
	44007	2037 Pine													
		Burlington	05975	47975	79	6		x	x						
	44010	1298 Rebecca St.													
		Oakville	06053	48078	92	5		x	x	x	x	x	x	x	x
	46025	Public Library													
		Mississauga	06115	48257	137	5			x						
	46033	Fire Hall													
		Bramalea	06053	48398	198	4			x						
	46100	Public School													
		Green Glade Rd.													
		Mississauga	06124	48187	92	11			x						
	47030	Muck Res. Stn.													
		Hwy. 400/Canal Rd.	06124	48772	214	4				x					
	47040	Holland Marsh													
		Police Stn.													
		65 Vespra Rd.													
		Barrie	06038	49149	229	12		x	x						
	48002	MTC Yard													
		Stouffville	06391	48694	259	4		x	x	x					
	58025	Natural Res. Bldg.													
		Orono	06907	48712	149	9				x					

Table 1/1977 — Continued . . .

REGION	STATION NUMBER	NAME OF STATION	UTM GRID		SITE ELEVATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	POLLUTANT MONITORED								
			EAST	NORTH			TR	SO <sub>2</sub>	COH	O <sub>3</sub>	CO	HC	NO <sub>2</sub>	NO	NOX
CENTRAL	59006	City Hall 500 George St. Peterborough	07137	49095	198	18		x	x						
	59055	I.E. Weldon H.S. Riverview Rd./Hwy. 36 Lindsay	06807	49141	262	12	x		x						
SOUTH EAST	51001	McDonald Gdns. Ottawa	04471	50312	61	4		x	x	x	x	x	x		
	52018	1055 Princess St. Kingston	03788	48990	82	15			x						
	52020	Churchill Park Napier St., Kingston	03795	48986	82	5		x	x						
	56051	Memorial Park Cornwall	05208	49846	61	4	x	x	x	x	x		x	x	x
	56068	435 Second St. W. Cornwall	05205	49845	66	6	x								
NORTH WEST	61010	Lassie/Dickenson Rds. Balmertown	04480	56670	381	3		x							
	61026	56 King St. Dryden	05117	55140	366	5	x								
	62030	Portage/Church Fort Frances	04708	53838	336	4	x								
	62032	Cemetery Colonization Rd. Fort Frances	04697	53841	336	5	x								
	63012	Dawson Court Thunder Bay	03372	53686	213	9		x							
	63040	435 James Street Thunder Bay	03302	53607	189	15		x	x						
	63046	Montreal St. Thunder Bay	03298	53584	191	15	x								
NORTH EAST	71001	29 Hillcrest Ave. Wawa	06655	53186	305	4		x							
	71002	Goudreau Algoma District	06835	53478	358	4		x							
	71038	Lucie Pit Algoma Ore, Wawa	06734	53270	381	6		x							
	71049	Land Registry Office, Sault Ste. Marie	07047	51543	190			x	x						
	75016	Dept. of Transport Verner	05668	51405	214	15		x							
	75020	Teacher's College North Bay	06185	51297	206	3		x	x						
	77001	Penage Sudbury Dist.	04730	51250	250	3		x							
	77009	Burwash Sudbury Dist.	05144	51288	229	3		x							
	77010	Callum Sudbury Dist.	05270	51525	250	3		x							
	77012	Skead Sudbury Dist.	05186	51678	274	3		x							
	77013	Hanmer Sudbury Dist.	05041	51663	290	3		x							
	77014	Rayside Sudbury Dist.	04930	51600	250	3		x							
	77016	Ash Street Sudbury	04994	51486	290	3		x	x	x	x	x	x	x	x
	77017	Morgan Sudbury Dist.	04810	51637	274	3		x							
	77018	St. Charles Sudbury Dist.	05449	51343	290	3		x							

Table 1/1977 — Continued . . .

REGION	STATION NUMBER	NAME OF STATION	UTM GRID		SITE ELEVATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	POLLUTANT MONITORED								
			EAST	NORTH			TRS	SO <sub>2</sub>	COH	O <sub>3</sub>	CO	HC	NO <sub>2</sub>	NO	NOX
NORTH EAST	77019	Grassy Lake													
		Sudbury Dist.	05536	51854	259	3		x							
	77026	19 Lisgar St.													
		Sudbury	05006	51485	274	14				x					
	77028	Government/Edward													
		Coniston	05118	51480	244	5		x	x						
	77052	Lockerby													
		Sudbury Airshed	04999	51444	274	5		x							
	77065	Falconbridge Rd.													
		Sudbury	05109	51559	290	5		x							
77066	Temagami														
	Sudbury Airshed	05704	52022	296	5		x								
77067	Chiniguchi														
	Sudbury Airshed	05264	52013	317	5		x								
77075	Kennedy St.														
	New Sudbury	05044	51520	262	5		x	x							

Table 2/1977  
Criteria for Desirable Air Quality. O. Reg. 872/74

	COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5
ITEM	NAME OF CONTAMINANT	UNIT OF MEASUREMENT	AVERAGE AMOUNT CONCENTRATION OR TOTAL AMOUNT OF CONTAMINANT	PERIOD OF TIME	APPROXIMATE EQUIVALENT AT 10° C AND 760 mm Hg PRESSURE
3	Carbon Monoxide	Parts of carbon monoxide per one million parts of air by volume	30	1 hour	36,200 ug/m <sup>3</sup>
			13	8 hours	15,700 ug/m <sup>3</sup>
16	Nitrogen Dioxide	Parts of nitrogen dioxide per one million parts of air by volume	0.20	1 hour	400 ug/m <sup>3</sup>
			0.10	24 hours	200 ug/m <sup>3</sup>
18	Ozone	Parts of ozone per one million parts of air by volume	0.08	1 hour	165 ug/m <sup>3</sup>
19	Soiling	Coefficient of Haze per 1000 feet of air	1.0	24 hours	
			0.5	1 year	
21	Sulphur Dioxide	Parts of sulphur dioxide per one million parts of air by volume	0.25	1 hour	690 ug/m <sup>3</sup>
			0.10	24 hours	275 ug/m <sup>3</sup>
			0.02	1 year	55 ug/m <sup>3</sup>

**Table 3/1977 Summary of Data: Sulphur Dioxide (all values in p.p.m.)**  
**Ontario Criteria — 1 Hour Average: 0.25 p.p.m.; 24-Hour Average: 0.10 p.p.m.; 1 Year Average: 0.02 p.p.m.**

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH-METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERIA		
				10	30	50	70	90	99		1 HR.	24-HR.	1 HR.	24-HR.	1 YEAR
OUTH WEST	12008	467 University Ave.													
		Windsor	354	.000	.006	.013	.023	.041	.084	.022	.22	.06	NIL	NIL	1
	12013	Wyandotte St.													
		Windsor	312	.000	.000	.005	.013	.029	.065	.014	.18	.08	NIL	NIL	NIL
	12015	Hwy. 18-Prospect													
		Windsor	276	.000	.000	.007	.016	.033	.068	.016	.30	.06	1	NIL	NIL



Table 3/1977 — Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH- METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERIA		
				10	30	50	70	90	99		1 HR.	24-HR.	1 HR.	24-HR.	1 YEAR
SOUTH WEST	12016	College-South St. Windsor	362	.000	.000	.006	.013	.030	.074	.015	.22	.06	NIL	NIL	NIL
	12032	Morton Dock Windsor	321	.000	.003	.010	.018	.033	.070	.018	.28	.05	1	NIL	NIL
	14004	Hydro SS Concession 14/15 Courtright	325	.000	.000	.000	.002	.017	.068	.007	.37	.07	2	NIL	NIL
	14016	Lambton G.S. Hwy. 40 Courtright	336	.000	.003	.008	.017	.034	.091	.018	.25	.07	NIL	NIL	NIL
	14049	156 Victoria St. Sarnia	352	.000	.002	.007	.016	.059	.155	.023	.28	.13	4	3	1
	15001	King-Rectory London	343	.000	.000	.003	.008	.018	.043	.010	.15	.04	NIL	NIL	NIL
	18001	MacKenzie RR2 Tiverton	339	.000	.000	.000	.000	.000	.000	.000	.06	.00	NIL	NIL	NIL
WEST CENTRAL	21006	Post Office Brantford	308	.000	.000	.000	.003	.013	.036	.006	.09	.05	NIL	NIL	NIL
	22011	Deamude Port Maitland	296	.000	.000	.001	.008	.028	.076	.011	.37	.08	1	NIL	NIL
	22023	Wray Minor Rd. Port Maitland	187	.000	.000	.005	.012	.029	.071	.014	.12	.07	NIL	NIL	NIL
	22071	Experimental Farm Simcoe	308	.000	.000	.004	.009	.020	.049	.011	.15	.09	NIL	NIL	NIL
	26029	Edna/Frederick St. Kitchener	317	.000	.000	.000	.005	.014	.034	.007	.08	.04	NIL	NIL	NIL
	27013	PS Victoria/Leader Niagara Falls	351	.000	.000	.002	.007	.016	.038	.008	.10	.05	NIL	NIL	NIL
	27027	PS 301 Beatrice St. Welland	365	.000	.003	.009	.018	.036	.074	.018	.19	.08	NIL	NIL	NIL
	27037	North/Geneva St. St. Catharines	295	.000	.000	.000	.005	.015	.046	.007	.11	.05	NIL	NIL	NIL
	27038	Rosehill/MacDonald Fort Erie	276	.000	.000	.007	.015	.030	.069	.015	.14	.08	NIL	NIL	NIL
	29008	North Park Hamilton	353	.000	.001	.007	.017	.039	.074	.017	.15	.08	NIL	NIL	NIL
	29025	Barton-Wentworth Hamilton	363	.000	.006	.013	.020	.044	.099	.023	.17	.08	NIL	NIL	1
	29026	Brampton-Woodward Hamilton	244	.000	.000	.002	.009	.020	.064	.011	.18	.08	NIL	NIL	NIL
	29080	City Hall Hamilton	286	.000	.002	.008	.016	.031	.078	.017	.16	.11	NIL	1	NIL
CENTRAL	31001	67 College St., 5th floor Toronto	365	.000	.000	.005	.011	.029	.071	.014	.20	.08	NIL	NIL	NIL
	31105	Sherbourne/Wilton St. Toronto	141	.000	.000	.004	.010	.023	.050	.012	.11	.04	NIL	NIL	NIL
	33002	Pharmacy - Hwy. 401 Scarborough	350	.000	.000	.004	.011	.027	.060	.013	.18	.07	NIL	NIL	NIL
	33003	Lawrence-Kennedy Scarborough	352	.000	.000	.002	.009	.028	.063	.012	.16	.07	NIL	NIL	NIL
	33019	Met. Branch Scar. Bluffs Scarborough	356	.000	.001	.006	.012	.026	.078	.014	.22	.09	NIL	NIL	NIL
	34002	Science Centre Don Mills, North York	183	.000	.000	.002	.007	.017	.049	.009	.10	.05	NIL	NIL	NIL
	34007	Bathurst-Wilson North York	352	.000	.000	.004	.010	.025	.074	.013	.24	.11	NIL	1	NIL
	35003	Elmcrest Rd. Etobicoke	349	.000	.000	.003	.008	.021	.060	.011	.41	.07	3	NIL	NIL
	35005	Queensway Hospital Etobicoke	349	.000	.000	.004	.008	.020	.061	.011	.17	.07	NIL	NIL	NIL
	35033	Evans-Arnold Etobicoke	333	.000	.000	.003	.008	.020	.055	.010	.14	.07	NIL	NIL	NIL
	35050	MOE Lab., Resources Rd. Etobicoke	342	.000	.000	.003	.008	.021	.072	.011	.29	.08	1	NIL	NIL
	44007	2037 Pine Burlington	302	.000	.000	.004	.010	.020	.050	.011	.12	.08	NIL	NIL	NIL

Table 3/1977 – Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH- METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERIA		
				10	30	50	70	90	99		1 HR.	24-HR.	1 HR.	24-HR.	1 YEAR
CENTRAL	44010	1298 Rebecca St. Oakville	346	.000	.000	.001	.007	.017	.047	.009	.23	.07	NIL	NIL	NIL
	47040	Police Station 65 Vespra Rd. Barrie	121	.000	.000	.000	.004	.010	.034	.006	.09	.04	NIL	NIL	NIL
	48002	MTC Yard Stouffville	287	.000	.000	.000	.004	.010	.037	.006	.12	.06	NIL	NIL	NIL
	59006	City Hall 500 George St. Peterborough	334	.000	.000	.000	.000	.009	.039	.004	.10	.05	NIL	NIL	NIL
SOUTH EAST	51001	McDonald Gdns. Ottawa	307	.000	.000	.004	.011	.027	.058	.012	.14	.07	NIL	NIL	NIL
	52020	Churchill Park Kingston	329	.000	.000	.000	.005	.022	.058	.008	.10	.05	NIL	NIL	NIL
	56051	Memorial Park Cornwall	323	.000	.001	.008	.016	.035	.091	.017	.48	.08	1	NIL	NIL
NORTH WEST	61010	Lassie/Dickenson Rds. Balmertown	111	.000	.000	.000	.000	.000	.313	.010	.56	.22	31	2	NIL
	63012	Dawson Court Thunder Bay	186	.000	.000	.000	.000	.000	.010	.001	.11	.02	NIL	NIL	NIL
	63040	435 James Street Thunder Bay	326	.000	.000	.000	.000	.000	.026	.002	.13	.02	NIL	NIL	NIL
NORTH EAST	71001	29 Hillcrest Ave. Wawa	348	.000	.000	.000	.000	.000	.231	.010	1.90	.26	77	6	NIL
	71002	Goudreau Algoma District	131	.000	.000	.000	.000	.051	.201	.016	.59	.15	17	1	NIL
	71038	Lucie Pit Algoma Ore Wawa	161	.000	.000	.000	.000	.104	.998	.050	1.99	.86	247	21	1
	71049	Land Registry Office Sault Ste. Marie	266	.000	.000	.000	.005	.015	.035	.007	.15	.04	NIL	NIL	NIL
	75016	Dept. of Transport Verner	356	.000	.000	.000	.002	.014	.046	.006	.22	.04	NIL	NIL	NIL
	75020	Teacher's College North Bay	329	.000	.000	.000	.003	.015	.044	.006	.13	.04	NIL	NIL	NIL
	77001	Penage Sudbury Dist.	360	.000	.000	.000	.000	.000	.070	.003	.71	.09	12	NIL	NIL
	77009	Burwash Sudbury Dist.	346	.000	.000	.000	.000	.015	.097	.006	.56	.05	8	NIL	NIL
	77010	Callum Sudbury Dist.	361	.000	.000	.000	.003	.017	.119	.009	.59	.06	13	NIL	NIL
	77012	Skead Sudbury Dist.	358	.000	.000	.000	.000	.022	.376	.017	1.32	.34	161	9	NIL
	77013	Hanmer Sudbury Dist.	345	.000	.000	.000	.000	.020	.194	.011	.94	.18	62	3	NIL
	77014	Rayside Sudbury Dist.	360	.000	.000	.000	.000	.009	.111	.006	1.31	.12	21	2	NIL
	77016	Ash Street Sudbury	364	.000	.000	.002	.009	.029	.152	.015	.72	.08	25	NIL	NIL
	77017	Morgan Sudbury Dist.	360	.000	.000	.000	.000	.007	.082	.005	1.45	.15	12	1	NIL
	77018	St. Charles Sudbury Dist.	361	.000	.000	.000	.000	.011	.061	.004	.26	.03	1	NIL	NIL
	77019	Grassy Lake Sudbury Dist.	160	.000	.000	.000	.003	.015	.075	.007	.23	.04	NIL	NIL	NIL
	77028	Government/Edward Coniston	364	.000	.000	.002	.008	.025	.188	.015	.70	.13	55	1	NIL
	77052	Lockerby Sudbury Dist.	337	.000	.000	.000	.000	.016	.139	.008	.83	.14	19	2	NIL
	77065	Falconbridge Rd. Sudbury	342	.000	.000	.000	.000	.024	.209	.013	.87	.13	57	3	NIL
	77066	Temagami Sudbury Airshed	147	.000	.000	.000	.000	.008	.051	.004	.14	.03	NIL	NIL	NIL
	77067	Chiniguchi Sudbury Airshed	135	.000	.000	.000	.003	.020	.103	.009	.52	.07	3	NIL	NIL

Table 3/1977 — Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH- METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERIA		
				10	30	50	70	90	99		1 HR.	24-HR.	1 HR.	24-HR.	1 YEAR
	77075	Kennedy Rd. New Sudbury	358	.000	.004	.009	.016	.038	.195	.023	1.19	.15	50	2	NIL
		1.1 km NNE Keith G.S.	114	.000	.006	.013	.023	.046	.098	.020	.36	.05	1	NIL	NIL
		1.3 km NE Keith G.S.	158	.004	.012	.021	.036	.067	.129	.030	.27	.10	1	NIL	1
		1.6 km SE Keith G.S.	126	.001	.007	.014	.024	.045	.096	.020	.28	.06	1	NIL	NIL
		1.8 km SSE Keith G.S.	136	.000	.004	.009	.018	.036	.082	.015	.28	.04	2	NIL	NIL
		0.4 km S Keith G.S.	149	.000	.004	.011	.021	.036	.083	.016	.42	.06	1	NIL	NIL
		7.1 km NE Lambton G.S.	225	.000	.001	.004	.010	.026	.104	.012	.31	.06	1	NIL	NIL
		8.2 km ENE Lambton G.S.	318	.000	.000	.004	.010	.028	.095	.010	.23	.08	NIL	NIL	NIL
		5.0 km ESE Lambton G.S.	253	.000	.000	.004	.010	.030	.100	.012	.30	.06	2	NIL	NIL
		7.8 km SE Lambton G.S.	320	.000	.001	.004	.008	.022	.077	.009	.30	.04	2	NIL	NIL
		7.3 km SSE Lambton G.S.	313	.000	.000	.003	.008	.026	.098	.010	.44	.05	7	NIL	NIL
		6.7 km NNE Lakeview G.S.	334	.000	.004	.008	.016	.033	.089	.014	.28	.12	1	1	NIL
		4.7 km ENE Lakeview G.S.	291	.000	.002	.005	.009	.023	.109	.011	.32	.11	5	2	NIL
		1.6 km W Lakeview G.S.	338	.000	.002	.004	.008	.021	.064	.008	.22	.05	NIL	NIL	NIL
		6.6 km W Lakeview G.S.	301	.000	.002	.004	.010	.026	.086	.010	.42	.09	6	NIL	NIL
		5.9 km NW Lakeview G.S.	337	.000	.002	.005	.011	.029	.086	.012	.42	.08	1	NIL	NIL
		5.7 km NNW Lakeview G.S.	331	.000	.003	.007	.015	.034	.092	.014	.58	.07	4	NIL	NIL
		9 km N Hearn G.S.	352	.000	.002	.006	.013	.029	.089	.012	.25	.10	NIL	NIL	NIL
		12 km NE Hearn G.S.	297	.000	.000	.000	.010	.020	.059	.007	.18	.08	NIL	NIL	NIL
		8 km ENE Hearn G.S.	331	.000	.004	.009	.015	.030	.079	.013	.22	.10	NIL	NIL	NIL
		15 km W Hearn G.S.	288	.000	.002	.005	.010	.023	.109	.011	.32	.11	5	1	NIL
		7 km NNW Hearn G.S.	307	.000	.003	.007	.013	.028	.085	.012	.19	.08	NIL	NIL	NIL
		4.5 km N Thunder Bay G.S.	318	.000	.000	.000	.002	.007	.028	.003	.12	.02	NIL	NIL	NIL
		4.8 km W Thunder Bay G.S.	337	.000	.000	.001	.003	.010	.031	.004	.23	.03	NIL	NIL	NIL
		5.6 km W Thunder Bay G.S.	168	.000	.000	.000	.000	.010	.025	.004	.28	.04	1	NIL	NIL
		3.5 km NW Thunder Bay G.S.	256	.000	.000	.000	.002	.008	.033	.003	.30	.03	1	NIL	NIL
		8.5 km NW Thunder Bay G.S.	328	.000	.000	.000	.001	.004	.016	.001	.17	.01	NIL	NIL	NIL
		8.9 km N Lennox G.S.	334	.000	.000	.000	.003	.008	.026	.003	.15	.03	NIL	NIL	NIL
		6.8 km NE Lennox G.S.	254	.000	.000	.002	.005	.014	.037	.005	.11	.03	NIL	NIL	NIL
		9.9 km SW Lennox G.S.	324	.000	.000	.002	.005	.012	.038	.005	.07	.05	NIL	NIL	NIL
		9.8 km W Lennox G.S.	320	.000	.000	.000	.001	.010	.027	.003	.05	.03	NIL	NIL	NIL
		9.0 km NW Lennox G.S.	315	.000	.000	.001	.004	.012	.040	.004	.11	.04	NIL	NIL	NIL
		8 km N Nanticoke G.S.	345	.000	.000	.002	.005	.015	.055	.006	.22	.06	NIL	NIL	NIL

Table 3/1977 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH- METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERIA		
				10	30	50	70	90	99		1 HR.	24-HR.	1 HR.	24-HR.	1 YEAR
NANTICOKE	15 km N														
	Nanticoke G.S.	325	.000	.000	.002	.007	.028	.090	.009	.19	.11	NIL	1	NIL	
	9 km NNE														
	Nanticoke G.S.	334	.000	.000	.002	.004	.014	.048	.005	.29	.08	3	NIL	NIL	
	15 km NNE														
	Nanticoke G.S.	319	.000	.000	.002	.005	.017	.063	.007	.25	.06	NIL	NIL	NIL	
	17 km NNE														
	Nanticoke G.S.	355	.000	.000	.002	.005	.015	.061	.006	.37	.07	3	NIL	NIL	
	10 km NE														
	Nanticoke G.S.	328	.000	.000	.002	.008	.020	.077	.008	.25	.07	NIL	NIL	NIL	
	19 km NE														
	Nanticoke G.S.	351	.000	.000	.002	.006	.018	.063	.007	.17	.06	NIL	NIL	NIL	
	11 km ENE														
	Nanticoke G.S.	318	.000	.000	.002	.005	.017	.066	.006	.17	.08	NIL	NIL	NIL	
	19 km ENE														
	Nanticoke G.S.	333	.000	.000	.003	.007	.018	.051	.007	.15	.05	NIL	NIL	NIL	
	5 km E														
	Nanticoke G.S.	307	.000	.000	.002	.006	.019	.065	.007	.19	.05	NIL	NIL	NIL	
	13 km W														
	Nanticoke G.S.	343	.000	.000	.000	.002	.016	.060	.005	.17	.05	NIL	NIL	NIL	
3 km WNW															
Nanticoke G.S.	337	.000	.000	.001	.004	.013	.057	.005	.21	.07	NIL	NIL	NIL		
20 km WNW															
Nanticoke G.S.	308	.000	.000	.002	.006	.016	.053	.006	.14	.07	NIL	NIL	NIL		
8 km NNW															
Nanticoke G.S.	322	.000	.000	.001	.006	.018	.069	.007	.59	.08	3	NIL	NIL		
11 km NNW															
Nanticoke G.S.	348	.000	.001	.002	.005	.015	.055	.006	.30	.08	1	NIL	NIL		
15 km NNW															
Nanticoke G.S.	275	.000	.000	.002	.007	.019	.065	.007	.36	.09	1	NIL	NIL		

Table 4/1977 Summary of Data: Soiling Index — 1 hour (all values are in COH's/1,000 ft.)

**Ontario Criteria – 24-Hour Average—1.0 COH's/1,000 ft. 1 Year Average—0.5 COH's/1,000 ft.**

[illegible]

Table 4/1977 — Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH- METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERIA	
				10	30	50	70	90	99		1 HR.	24-HR	24-HR	1 YEAR
CENTRAL	34007	Bathurst–Wilson North York	358	.00	.19	.36	.66	1.14	1.86	.54	3.4	1.8	32	1
	35033	Evans–Arnold Etobicoke	362	.04	.24	.39	.61	1.03	2.06	.54	4.5	1.8	25	1
NORTH EAST	77016	Ash Street Sudbury	354	.00	.00	.00	.10	.27	.72	.10	1.7	0.8	NIL	NIL
	77028	Government/Edward Coniston	361	.00	.00	.00	.13	.33	.98	.13	2.6	1.2	1	NIL
	77075	Kennedy St. New Sudbury	357	.00	.00	.01	.16	.30	.69	.14	1.5	0.6	NIL	NIL

Table 5/1977 Summary of Data: Soiling Index – 2 Hour (all values are in COH's/1,000 ft.)  
Ontario Criteria – 24-Hour Average—1.0 COH's/1,000 ft.      1 Year Average—0.5 COH's/1,000 ft.

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH- METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERIA		
				10	30	50	70	90	99		1 HR.	24-HR.	24-HR.	1 YEAR	
SOUTH- WEST	12002	City Hall Windsor	329	.00	.00	.13	.20	.41	.85	.20	2.2	0.7	NIL	NIL	
	12010	Manning Rd. Pump Station, Windsor	298	.00	.00	.13	.21	.44	.86	.21	3.6	0.7	NIL	NIL	
	12013	Wyandotte St. Windsor	352	.00	.10	.19	.30	.64	1.46	.31	2.3	1.4	2	NIL	
	12014	Univ. Met. Stn. College/Calif. St., Windsor	312	.00	.10	.19	.35	.67	1.27	.31	2.9	1.0	NIL	NIL	
	12015	Hwy. 18-Prospect Windsor	274	.00	.13	.22	.40	.71	1.70	.36	2.8	1.4	3	NIL	
	12032	Morton Dock Windsor	346	.00	.09	.17	.26	.49	.97	.25	2.1	0.6	NIL	NIL	
	15003	362 Dundas St. London	334	.00	.03	.14	.21	.41	.82	.21	1.5	0.7	NIL	NIL	
	WEST CENTRAL	21006	Post Office Brantford	344	.00	.04	.14	.22	.43	.84	.21	1.4	0.7	NIL	NIL
26001		Public Utilities Substation Waterloo	355	.00	.00	.13	.20	.38	.87	.19	2.2	0.8	NIL	NIL	
26029		Edna/Frederick St. Kitchener	360	.00	.11	.19	.30	.63	1.40	.31	2.8	1.2	1	NIL	
27037		North/Geneva St. St. Catharines	308	.00	.08	.16	.24	.46	.88	.24	1.9	0.8	NIL	NIL	
29001		Hughson-Main Hamilton	357	.00	.09	.18	.28	.59	1.24	.28	2.8	1.2	3	NIL	
29009		Kenilworth-Roxborough Hamilton	313	.00	.00	.12	.20	.42	1.01	.20	2.9	1.0	NIL	NIL	
29012		Burlington-Wellington Hamilton	342	.00	.10	.17	.27	.51	1.05	.26	1.8	0.9	NIL	NIL	
29015		Merrick St. Hemilton	352	.00	.07	.17	.27	.54	1.08	.26	4.4	1.1	1	NIL	
29017		Chatham-Frid Hamilton	341	.00	.00	.12	.19	.40	.94	.20	1.9	1.0	NIL	NIL	
29067		450 Hughson St. Hamilton	322	.00	.05	.15	.22	.43	.81	.22	1.7	0.6	NIL	NIL	
CENTRAL		31105	Sherbourne/Wilton Toronto	128	.00	.14	.23	.42	.82	1.70	.39	4.7	1.5	2	NIL
		33019	Met. Branch Scar. Bluffs Scarborough	332	.00	.00	.15	.26	.50	.89	.24	4.1	0.6	NIL	NIL
	35003	Elmcrest Rd. Etobicoke	337	.00	.07	.18	.31	.64	1.28	.30	2.8	1.4	2	NIL	
	35005	Queensway Hospital Etobicoke	328	.00	.06	.17	.32	.69	1.53	.31	2.5	1.1	2	NIL	
	35008	22-36th St. Etobicoke	315	.00	.00	.13	.23	.48	1.01	.22	2.1	1.1	1	NIL	

Table 5/1977 – Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH- METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERIA	
				10	30	50	70	90	99		1 HR.	24-HR.	24-HR.	1 YEAR
CENTRAL	35050	MOE Lab., Resources Rd. Etobicoke	326	.00	.11	.21	.38	.69	1.42	.34	2.6	1.3	2	NIL
	44007	2037 Pine Burlington	324	.00	.00	.15	.25	.50	1.02	.24	2.3	0.9	NIL	NIL
	44010	1298 Rebecca St. Oakville	347	.00	.02	.15	.26	.54	1.12	.25	2.1	1.0	NIL	NIL
	46025	Public Library Mississauga	347	.00	.05	.16	.25	.49	1.05	.25	2.3	0.8	NIL	NIL
	46033	Fire Hall Bramalea	336	.00	.00	.00	.13	.26	.58	.11	1.3	0.3	NIL	NIL
	47040	Police Stn., 65 Vespra Rd. Barrie	185	.00	.01	.13	.20	.37	.76	.19	2.6	0.7	NIL	NIL
	48002	MTC Yard Stouffville	340	.00	.00	.09	.17	.33	.74	.16	2.0	0.7	NIL	NIL
	59006	City Hall, 500 George St. Peterborough	250	.00	.00	.14	.22	.44	.89	.21	1.9	0.7	NIL	NIL
	59055	I.E. Weldon H.S. Riverview Rd./Hwy. 36 Lindsay	270	.00	.00	.08	.18	.35	.72	.16	1.5	0.5	NIL	NIL
DOUTH- AST	51001	McDonald Gdns. Ottawa	323	.00	.00	.14	.21	.42	.79	.20	1.3	0.6	NIL	NIL
	52018	1055 Princess St. Kingston	344	.00	.00	.12	.18	.31	.67	.17	1.3	0.6	NIL	NIL
	52020	Churchill Park Napier St., Kingston	334	.00	.00	.00	.10	.19	.40	.09	1.7	0.6	NIL	NIL
	56051	Memorial Park Cornwall	363	.00	.00	.12	.19	.39	.85	.19	2.2	0.8	NIL	NIL
ORTH- WEST	63040	435 James St. Thunder Bay	362	.00	.00	.12	.18	.31	.64	.17	1.1	0.4	NIL	NIL
ORTH- AST	71049	Land Registry Office Sault Ste. Marie	302	.00	.00	.13	.23	.45	.85	.21	1.9	0.5	NIL	NIL
	75020	Teacher's College North Bay	323	.00	.00	.12	.19	.38	.90	.19	2.3	0.7	NIL	NIL
	77026	19 Lisgar St. Sudbury	286	.00	.04	.14	.21	.42	.86	.21	1.9	0.8	NIL	NIL

Table 6/1977 Summary of Data: Carbon Monoxide (all values in p.p.m.)  
Ontario Criteria — 1 Hour Average: 30 p.p.m. 8 Hour Average: 13 p.p.m.

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH- METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERIA	
				10	30	50	70	90	99		1 HR.	8-HR.	1 HR.	8-HR.
DOUTH- EST	12008	467 University Ave. Windsor	340	0.3	1.0	1.5	2.0	3.4	5.9	2.2	19	10	NIL	NIL
	14049	156 Victoria St. Sarnia	355	0.2	0.8	1.2	1.7	2.5	3.8	1.8	10	6	NIL	NIL
	15001	King—Rectory London	315	0.0	0.0	0.4	0.8	1.8	4.9	1.1	16	8	NIL	NIL
EST CENTRAL	26029	Edna/Frederick Sts. Kitchener	197	0.0	0.2	0.6	1.0	1.9	5.6	1.3	19	9	NIL	NIL
	27037	North/Geneva Sts. St. Catharines	303	0.0	0.5	0.9	1.5	2.0	4.5	1.5	23	8	NIL	NIL
	29025	Barton—Wentworth Hamilton	344	0.0	0.3	0.7	1.3	2.4	5.5	1.4	12	7	NIL	NIL
CENTRAL	31001	67 College St., 5th floor Toronto	365	0.2	0.6	1.0	1.5	2.0	3.9	1.6	9	6	NIL	NIL
	31090	67 College St., 2nd floor Toronto	321	0.4	1.3	1.9	2.8	4.4	7.7	2.8	15	10	NIL	NIL

Table 6/1977 — Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH-METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERIA	
				10	30	50	70	90	99		1 HR.	8-HR.	1 HR.	8-HR.
CENTRAL	31105	Sherbourne/Wilton St. Toronto	135	0.1	0.6	1.1	1.8	3.1	6.8	1.9	14	9	NIL	NIL
	33002	Pharmacy/Hwy. 401 Scarborough	357	0.2	0.7	1.2	1.7	2.8	5.6	1.9	15	8	NIL	NIL
	33003	Lawrence-Kennedy Scarborough	362	0.1	0.5	1.0	1.7	3.2	5.8	1.8	16	11	NIL	NIL
	34002	Science Centre Don Mills, North York	193	0.1	0.4	0.7	1.0	1.8	3.0	1.4	8	7	NIL	NIL
	34007	Bathurst-Wilson North York	360	1.0	1.4	1.8	2.5	3.9	6.5	2.6	15	9	NIL	NIL
	35003	Elmcrest Rd. Etobicoke	359	0.0	0.3	0.7	1.0	1.8	3.5	1.3	10	6	NIL	NIL
	35033	Evans-Arnold Etobicoke	365	0.2	0.8	1.3	1.7	2.5	4.9	1.8	14	9	NIL	NIL
	44010	1298 Rebecca St. Oakville	351	0.2	0.6	1.0	1.5	2.0	4.7	1.6	13	8	NIL	NIL
SOUTH-EAST	51001	McDonald Gdns. Ottawa	338	0.0	0.0	0.3	0.7	1.3	3.0	0.9	7	5	NIL	NIL
	56051	Memorial Park Cornwall	345	0.0	0.0	0.2	0.6	0.9	2.8	0.7	15	6	NIL	NIL
NORTH-EAST	77016	Ash Street Sudbury	338	0.0	0.0	0.3	0.6	1.0	2.9	0.8	10	6	NIL	NIL

Table 7/1977 Summary of Data: Total Hydrocarbons (all values are in p.p.m.)  
No Existing Criteria

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH-METIC MEAN	MAXIMUM	
				10	30	50	70	90	99		1 HR.	24-HR.
SOUTH-WEST	12008	467 University Ave. Windsor	330	1.56	1.91	2.17	2.48	3.10	5.13	2.35	16.8	4.9
	14049	156 Victoria St. Sarnia	265	1.37	1.95	2.19	2.49	3.33	5.45	2.36	12.4	4.1
	15001	King-Rectory London	350	1.70	1.90	2.09	2.30	2.71	4.03	2.22	7.7	3.8
WEST CENTRAL	22071	Experimental Farm Simcoe	106	0.98	1.43	1.68	1.95	2.43	2.90	1.74	3.9	2.6
	29008	North Park Hamilton	237	0.25	0.54	0.83	1.17	1.82	4.05	1.04	10.7	5.6
CENTRAL	31001	67 College St., 5th floor Toronto	336	0.87	1.21	1.50	1.81	2.23	3.45	1.60	5.6	3.0
	33002	Pharmacy-Hwy. 401 Scarborough	359	1.31	1.57	1.76	1.98	2.36	3.46	1.87	6.1	3.5
	33003	Lawrence-Kennedy Scarborough	355	1.52	1.73	1.87	2.07	2.50	3.82	2.03	8.0	3.9
	34002	Science Centre Don Mills, North York	156	1.46	1.92	2.29	2.69	3.82	5.59	2.53	8.1	4.1
	34007	Bathurst-Wilson North York	345	0.69	0.96	1.11	1.32	1.69	2.61	1.23	5.6	2.8
	35003	Elmcrest Rd. Etobicoke	322	1.55	1.79	2.01	2.23	2.72	4.78	2.17	12.4	4.5
	35033	Evans-Arnold Etobicoke	346	1.12	1.39	1.59	1.79	2.23	3.64	1.71	6.3	3.3
	44010	1298 Rebecca St. Oakville	294	1.33	1.54	1.68	1.88	2.33	3.46	1.82	6.3	3.3
SOUTH-EAST	51001	McDonald Gdns. Ottawa	309	1.55	1.80	1.98	2.15	2.46	3.21	2.03	6.1	3.6
NORTH-EAST	77016	Ash Street Sudbury	321	1.72	1.87	2.05	2.32	2.74	3.68	2.22	7.5	3.7





**Table 10/1977 Summary of Data: Total Reduced Sulphur (all values in p.p.m.)**  
**No Existing Criteria**

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH-METIC MEAN	MAXIMUM	
				10	30	50	70	90	99		1 HR.	24-HR.
SOUTH-WEST	14049	156 Victoria St. Sarnia	350	0.0	0.0	0.0	0.0	2.8	6.5	0.5	35	5
	18001	MacKenzie RR2 Tiverton	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	1
WEST CENTRAL	29008	North Park Hamilton	283	0.0	0.0	0.0	0.0	2.0	8.8	0.8	26	7
	29025	Barton-Wentworth Hamilton	336	0.0	0.0	0.0	0.3	2.8	18.6	1.3	110	17
SOUTH-EAST	56051	Memorial Park Cornwall	337	0.0	0.0	0.2	2.1	6.3	20.7	2.4	79	16
	56068	435 2nd St. W. Cornwall	272	0.0	0.8	2.1	4.4	11.6	36.9	5.0	116	23
CENTRAL	59055	I.E. Weldon H.S. Riverview Rd./Hwy.36 Lindsay	249	0.0	0.0	0.0	0.0	0.5	6.7	0.4	34	6
NORTH-WEST	61026	56 King St. Dryden	325	0.0	0.0	0.0	0.0	9.7	56.3	3.7	164	39
	62030	Portage/Church Fort Frances	294	0.0	0.0	0.0	4.5	43.7	209.1	15.4	480	132
	62032	Cemetery Colonization Rd. Fort Frances	225	0.0	0.0	0.0	0.0	9.5	46.7	3.3	129	35
	63046	Montreal St. Thunder Bay	298	0.0	0.0	0.0	0.2	4.5	17.5	1.5	56	12

**Table 11/1977 Summary of Data: Nitrogen Dioxide (all values in p.p.m.)**  
**Ontario Criteria — 1 Hour Average: 0.20 p.p.m. 24-Hour Average: 0.10 p.p.m.**

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH-METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERIA	
				10	30	50	70	90	99		1 HR.	24-HR.	1HR.	24-HR.
SOUTH-WEST	12008	467 University Ave. Windsor	341	.012	.020	.026	.034	.046	.070	.033	.18	.08	NIL	NIL
	14049	156 Victoria St. Sarnia	318	.004	.013	.019	.028	.045	.073	.027	.13	.07	NIL	NIL
	15001	King-Rectory London	346	.004	.012	.019	.028	.045	.081	.028	.17	.08	NIL	NIL
WEST CENTRAL	22071	Experimental Farm Simcoe	268	.000	.001	.006	.011	.021	.039	.012	.12	.04	NIL	NIL
	26029	Edna/Frederick St. Kitchener	263	.007	.019	.028	.037	.052	.088	.035	.14	.09	NIL	NIL
	27037	North/Geneva St. St. Catharines	334	.004	.012	.018	.025	.036	.059	.024	.20	.06	NIL	NIL
	29008	North Park Hamilton	338	.010	.025	.036	.048	.076	.117	.045	.20	.14	NIL	3
	29025	Barton-Wentworth Hamilton	352	.013	.034	.052	.067	.086	.116	.056	.18	.11	NIL	2
CENTRAL	31001	67 College St., 5th floor Toronto	360	.010	.018	.025	.033	.047	.075	.032	.10	.07	NIL	NIL
	31105	Shelbourne/Wilton St. Toronto	129	.008	.015	.020	.026	.035	.057	.026	.09	.06	NIL	NIL
	33002	Pharmacy-Hwy. 401 Scarborough	354	.013	.024	.032	.041	.056	.089	.039	.17	.08	NIL	NIL
	33003	Lawrence-Kennedy Etobicoke	342	.012	.023	.032	.043	.063	.094	.040	.13	.10	NIL	NIL
	34002	Science Centre Don Mills, North York	192	.004	.011	.017	.023	.033	.054	.023	.10	.05	NIL	NIL

ible 11/1977 – Continued . . .

EGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH- METIC MEAN	MAXIMUM		NUMBER OF TIMES ABOVE CRITERIA	
				10	30	50	70	90	99		1 HR.	24-HR.	1 HR.	24-HR.
NTRAL	34007	Bathurst-Wilson North York	351	.005	.017	.028	.040	.067	.122	.038	.27	.15	8	4
	35003	Elmcrest Rd. Etobicoke	359	.002	.008	.015	.023	.036	.066	.022	.12	.07	NIL	NIL
	35033	Evans-Arnold Etobicoke	358	.014	.025	.033	.043	.065	.104	.042	.19	.12	NIL	1
	44010	1298 Rebecca St. Oakville	355	.002	.007	.012	.019	.031	.052	.020	.09	.05	NIL	NIL
UTH- ST	51001	McDonald Gdns. Ottawa	332	.001	.006	.013	.020	.034	.060	.020	.10	.06	NIL	NIL
	56051	Memorial Park Cornwall	355	.001	.005	.010	.016	.028	.053	0.17	.15	.06	NIL	NIL
IRTH- ST	77016	Ash Street Sudbury	361	.000	.001	.006	.012	.024	.047	.013	.08	.05	NIL	NIL

ible 12/1977    Summary of Data: Nitric Oxide (all values in p.p.m.)  
No Existing Criteria

EGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH- METIC MEAN	MAXIMUM	
				10	30	50	70	90	99		1 HR.	24-HR.
UTH- ST	12008	467 University Ave. Windsor	338	.000	.006	.014	.030	.070	.173	.032	.82	.18
	14049	156 Victoria St. Sarnia	309	.000	.000	.006	.016	.039	.096	.017	.26	.08
	15001	King-Rectory London	346	.000	.001	.006	.014	.040	.148	.020	.57	.24
ST NTRAL	22071	Experimental Farm Simcoe	260	.000	.000	.003	.008	.015	.022	.009	.08	.03
	29008	North Park Hamilton	334	.000	.004	.044	.097	.174	.346	.073	.71	.34
	29025	Barton-Wentworth Hamilton	364	.000	.002	.009	.025	.070	.220	.030	.55	.26
NTRAL	31001	67 College St., 5th floor Toronto	363	.000	.004	.010	.020	.053	.172	.026	.50	.15
	31105	Sherbourne/Wilton St. Toronto	117	.007	.019	.035	.060	.113	.260	.057	.47	.19
	33002	Pharmacy-Hwy. 401 Scarborough	359	.000	.017	.071	.199	.394	.778	.152	1.88	.65
	33003	Lawrence-Kennedy Scarborough	218	.004	.016	.028	.048	.102	.258	.049	.66	.15
	34002	Science Centre Don Mills, North York	192	.000	.003	.007	.015	.056	.183	.025	.59	.22
	34007	Bathurst-Wilson North York	356	.000	.008	.042	.131	.320	.657	.115	1.02	.57
	35003	Elmcrest Rd. Etobicoke	355	.000	.003	.009	.023	.075	.286	.032	.91	.29
	35033	Evans-Arnold Etobicoke	353	.004	.019	.042	.081	.174	.482	.078	.98	.35
	44010	1298 Rebecca St. Oakville	358	.000	.001	.006	.011	.044	.209	.021	.54	.17
UTH- ST	56051	Memorial Park Cornwall	355	.000	.000	.005	.010	.031	.101	.016	.69	.09
RTH- ST	77016	Ash Street Sudbury	360	.000	.000	.000	.006	.019	.099	.010	.41	.09

**Table 13/1977** Summary of Data: Nitrogen Oxides (all values in p.p.m.)  
No Existing Criteria

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH-METIC MEAN	MAXIMUM	
				10	30	50	70	90	99		1 HR.	24-H
SOUTH-WEST	12008	467 University Ave. Windsor	331	.022	.035	.049	.068	.109	.215	.065	.89	.21
	14049	156 Victoria St. Sarnia	307	.007	.020	.032	.047	.083	.149	.045	.31	.14
	15001	King-Rectory London	344	.008	.020	.031	.048	.086	.226	.048	.66	.30
WEST CENTRAL	22071	Experimental Farm Simcoe	267	.001	.010	.016	.022	.035	.168	.025	.22	.18
	29008	North Park Hamilton	333	.011	.039	.095	.154	.234	.411	.117	.77	.40
	29025	Barton-Wentworth Hamilton	356	.017	.047	.073	.099	.150	.305	.086	.63	.36
CENTRAL	31001	67 College St., 5th floor Toronto	360	.017	.030	.042	.059	.097	.224	.058	.59	.21
	31105	Shelbourne/Wilton St. Toronto	129	.024	.042	.062	.091	.144	.295	.082	.47	.22
	33002	Pharmacy-Hwy. 401 Scarborough	353	.021	.053	.114	.243	.444	.832	.191	2.03	.70
	33003	Lawrence-Kennedy Scarborough	346	.022	.046	.068	.097	.156	.307	.087	.95	.24
	34002	Science Centre Don Mills, North York	191	.011	.020	.029	.044	.088	.220	.048	.65	.27
	34007	Bathurst-Wilson North York	350	.011	.034	.082	.181	.382	.732	.153	1.08	.69
	35003	Elmcrest Rd. Etobicoke	354	.006	.018	.030	.051	.110	.324	.054	.93	.34
	35033	Evans-Arnold Etobicoke	346	.028	.056	.086	.128	.229	.553	.119	1.07	.42
	44010	1298 Rebecca St. Oakville	354	.005	.015	.023	.036	.074	.246	.041	.57	.18
SOUTH-EAST	56051	Memorial Park Cornwall	355	.003	.014	.021	.031	.057	.139	.033	.75	.13
NORTH-EAST	77016	Ash Street Sudbury	360	.000	.004	.011	.020	.046	.139	.024	.46	.14

**Table 14/1977** Ontario's Air Pollution Index

Date Started:	TORONTO	— MARCH 23, 1970	WELLAND	— JANUARY 1, 1974
	HAMILTON	— JUNE 15, 1970	NIAGARA FALLS	— NOVEMBER 1, 1974
	SUDBURY	— JANUARY 16, 1971	CONISTON	— FEBRUARY 18, 1975
	WINDSOR	— MARCH 19, 1971	NEW SUDBURY	— MARCH 1, 1976
	HAPPY VALLEY	— MAY 13, 1971 (Closed Jan. 1975)	SARNIA	— DECEMBER 1, 1977

YEAR	CITY	NUMBER OF OCCASIONS		MAXIMUM INDEX	DATE OF MAXIMUM	
		≥ 32	≥ 50			
1970	TORONTO	17	2	56	OCT.	8
	HAMILTON	2	1	56	OCT.	8
1971	TORONTO	19	1	52	APR.	13
	HAMILTON	23	NIL	48	OCT.	21
	SUDBURY	26	3	87	DEC.	11
	WINDSOR	2	NIL	33	NOV.	10
	HAPPY VALLEY	20	7	64	NOV.	21
1972	TORONTO	2	NIL	45	FEB.	13
	HAMILTON	6	NIL	41	FEB.	13
	SUDBURY	7	1	79	JUNE.	12
	WINDSOR	9	1	53	JAN.	29
	HAPPY VALLEY	20	11	139	MAR.	23

ble 14/1977 – Continued . . .

YEAR	CITY	NUMBER OF OCCASIONS		MAXIMUM INDEX	DATE OF MAXIMUM	
		≥ 32	≥ 50			
1973	TORONTO	3	NIL	43	OCT.	24
	HAMILTON	2	NIL	34	FEB.	14
	SUDBURY	NIL	NIL	26	MAR.	14
	WINDSOR	7	NIL	44	FEB.	19
	HAPPY VALLEY	19	10	94	AUG.	21
1974	TORONTO	3	1	50	OCT.	29
	HAMILTON	11	NIL	44	OCT.	29
	SUDBURY	1	NIL	32	JULY.	13
	WINDSOR	2	NIL	41	JAN.	7
	HAPPY VALLEY	24	13	116	APR.	23
	WELLAND	46	15	77	OCT.	6
	NIAGARA FALLS	NIL	NIL	20	NOV.	9
1975	TORONTO	2	1	62	NOV.	20
	HAMILTON	10	NIL	38	OCT.	24
	SUDBURY	NIL	NIL	30	FEB.	1
	WINDSOR	NIL	NIL	28	FEB.	11
	WELLAND	NIL	NIL	23	JAN.	24
	NIAGARA FALLS	NIL	NIL	21	NOV.	24
	CONISTON	NIL	NIL	30	MAY	13
1976	TORONTO	1	NIL	33	OCT.	3
	HAMILTON	8	NIL	41	DEC.	16
	SUDBURY	NIL	NIL	28	JUNE	6
	WINDSOR	1	NIL	34	DEC.	16
	WELLAND	NIL	NIL	24	DEC.	16
	NIAGARA FALLS	NIL	NIL	25	FEB.	21
	CONISTON	NIL	NIL	29	SEPT.	16
	NEW SUDBURY	NIL	NIL	29	APR.	2, 3 & JUNE 20
1977	TORONTO	4	NIL	36	JAN.	15
	HAMILTON	10	NIL	44	MAR.	12
	SUDBURY	NIL	NIL	24	JUNE	11
	WINDSOR	1	NIL	33	APR.	19
	WELLAND	NIL	NIL	22	JAN.	24, 25
	NIAGARA FALLS	NIL	NIL	28	FEB.	21
	CONISTON	NIL	NIL	25	APR.	25
	NEW SUDBURY	1	NIL	39	JUNE	11
	SARNIA	NIL	NIL	15	DEC.	13

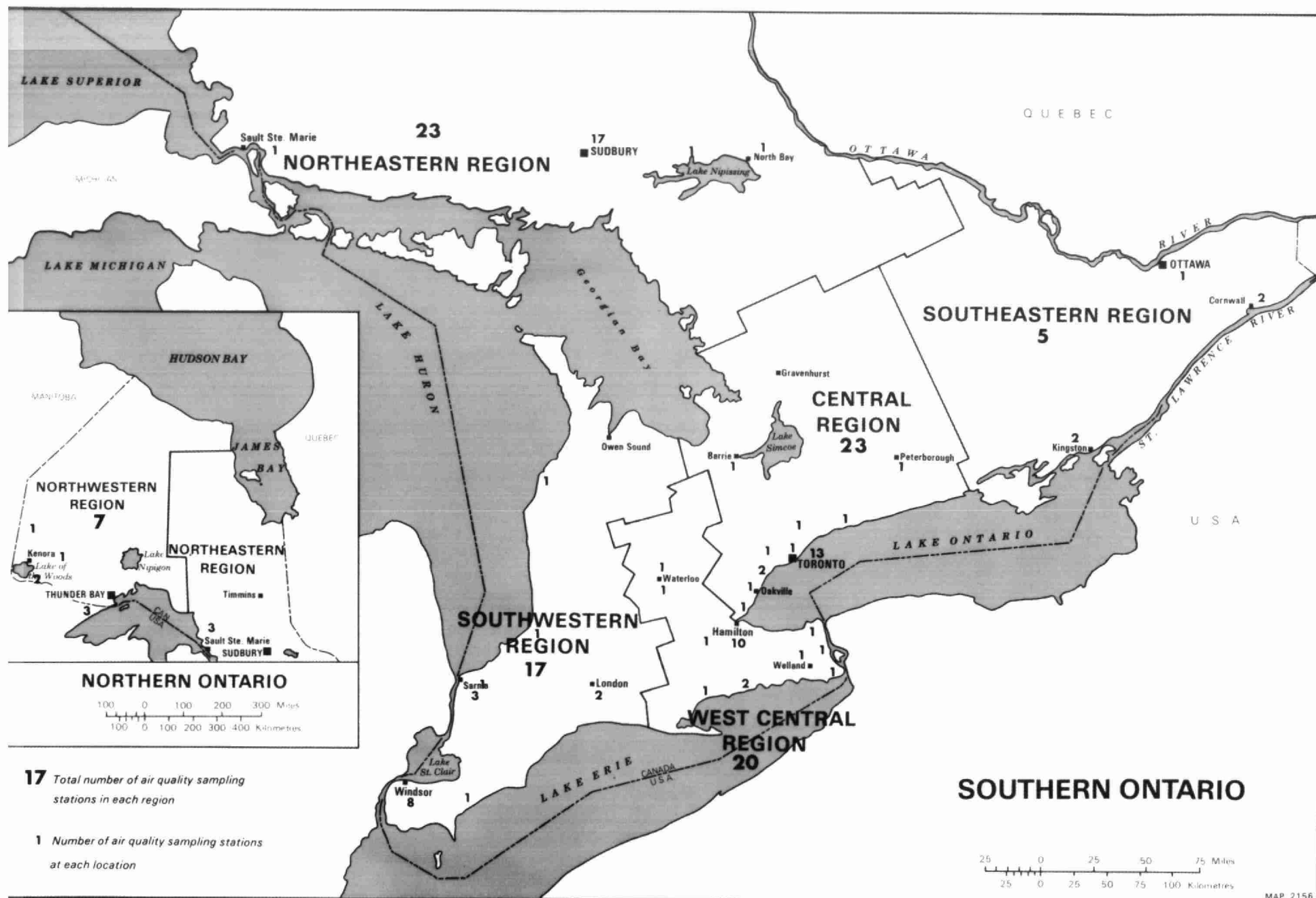


Figure 1. Locations of sampling stations in Ontario.

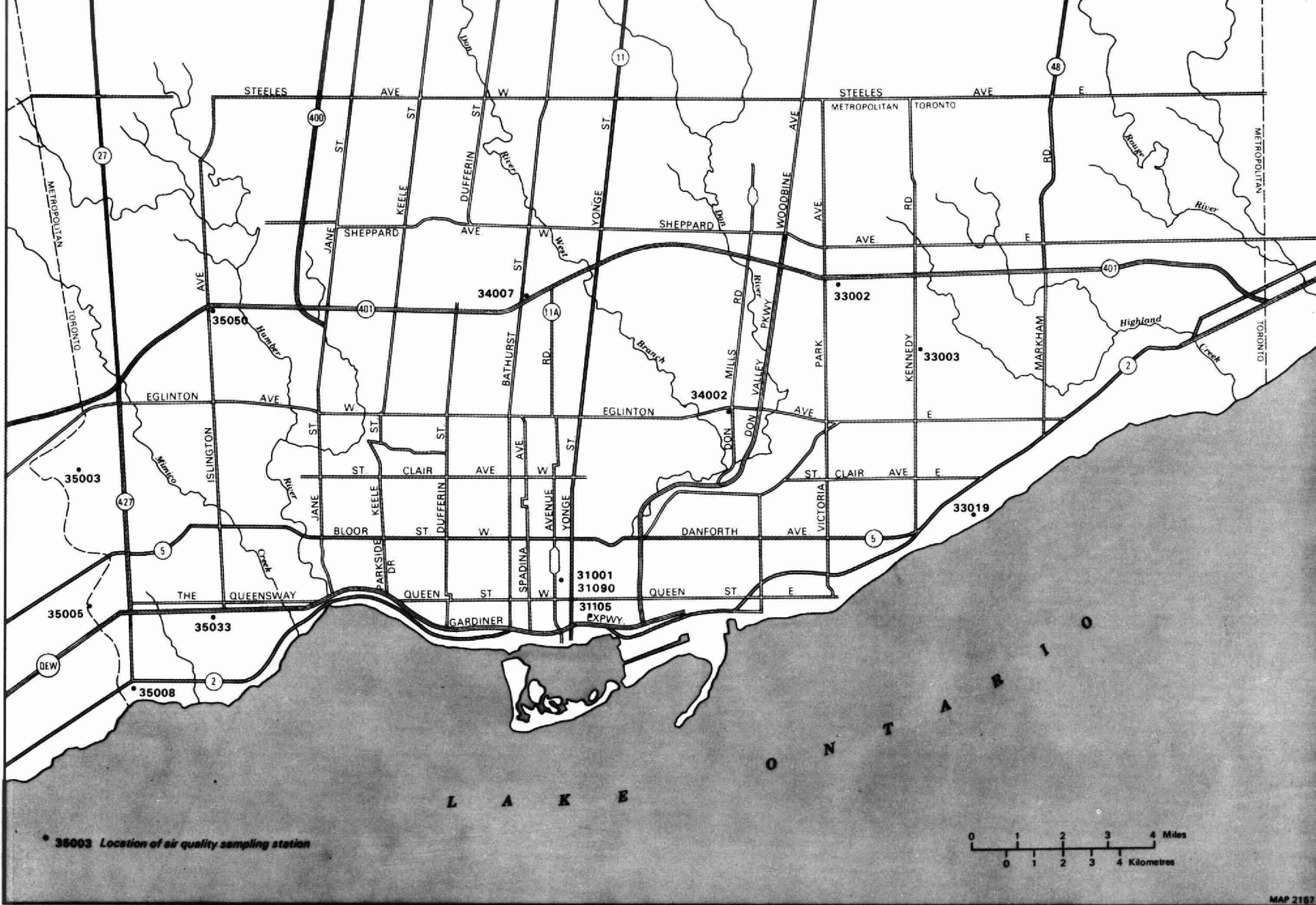


Figure 2. Locations of sampling stations in Metropolitan Toronto.

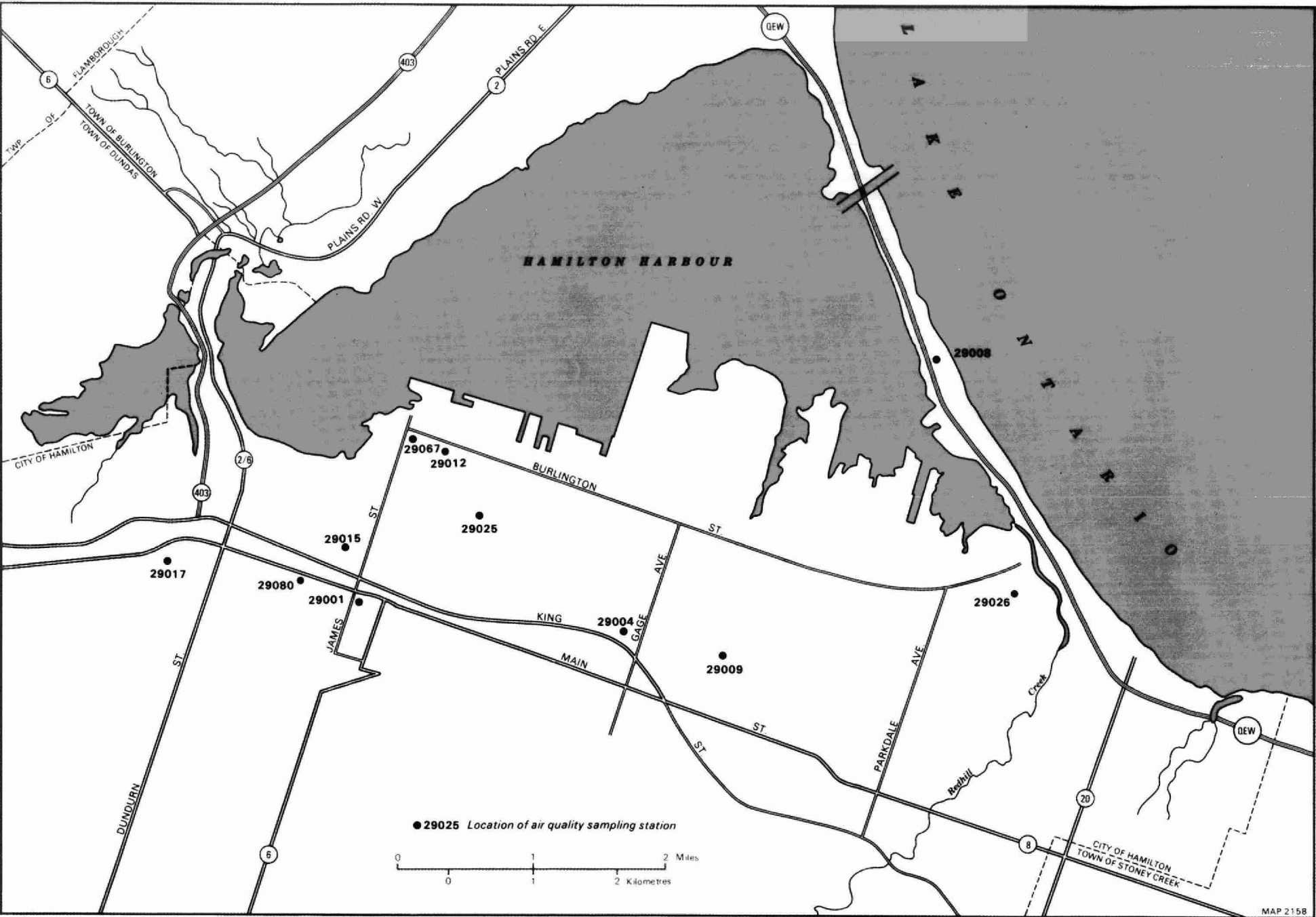


Figure 3. Locations of sampling stations in Hamilton.



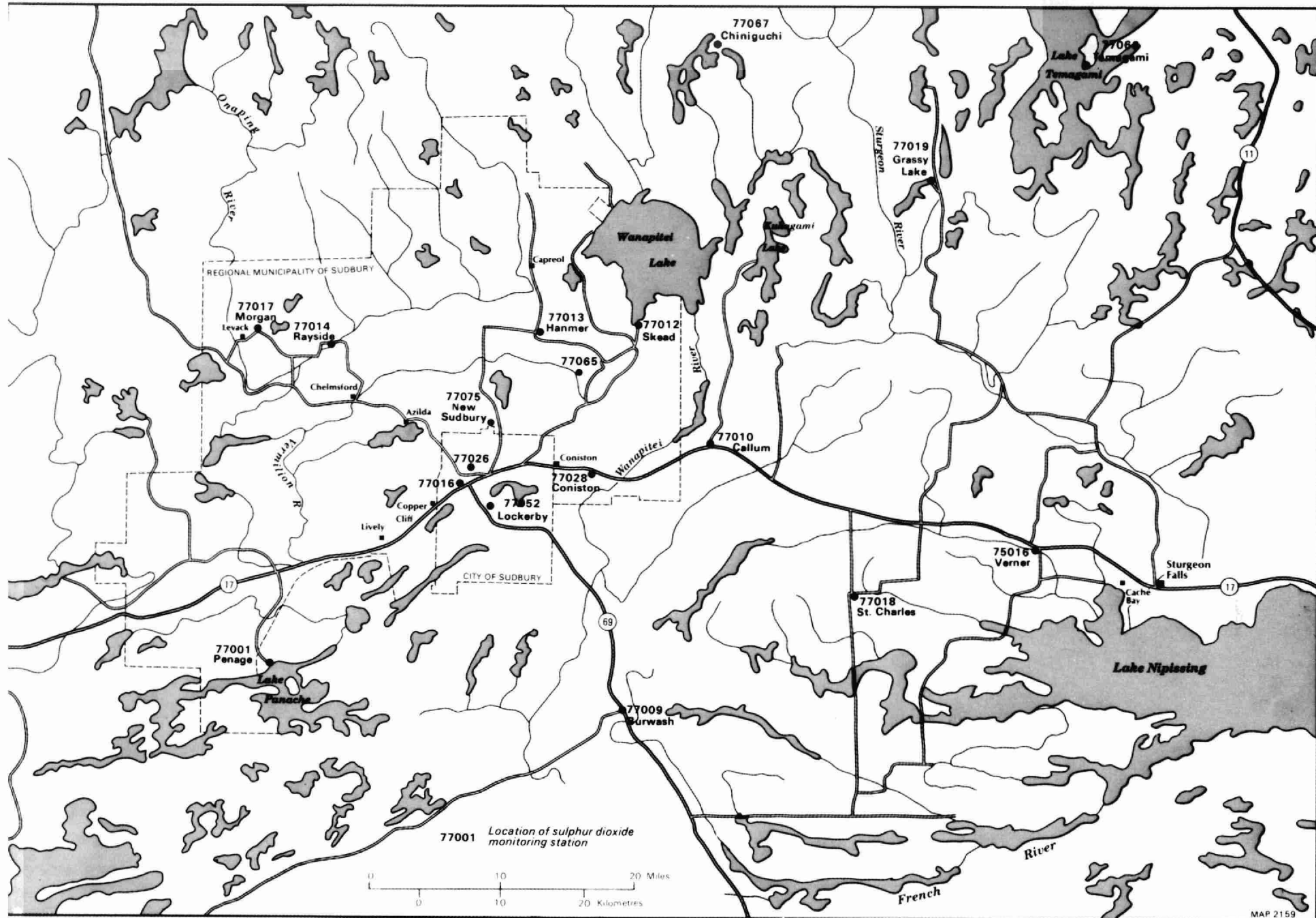


Figure 4. Locations of sulphur dioxide monitoring stations in the Sudbury area.



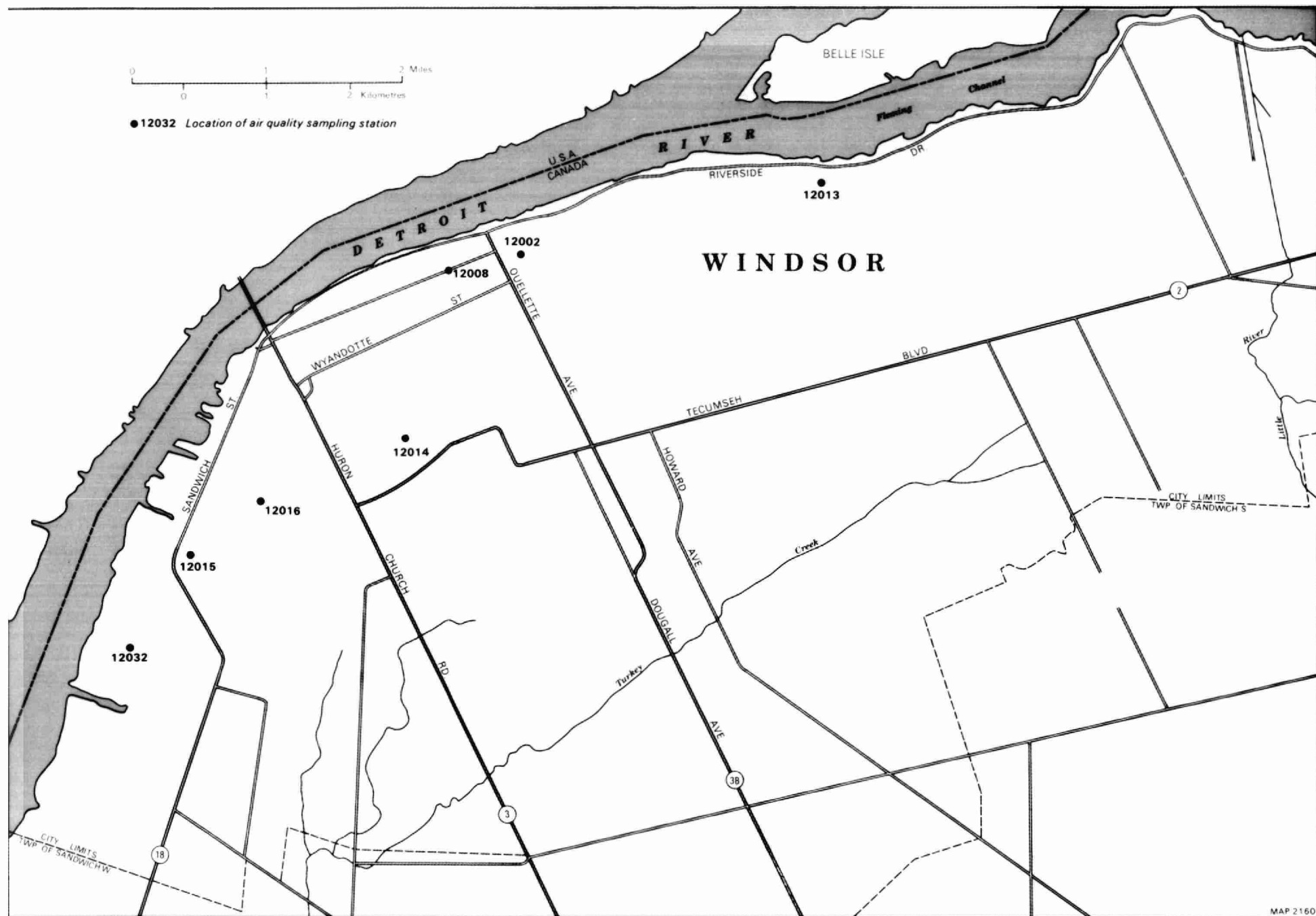
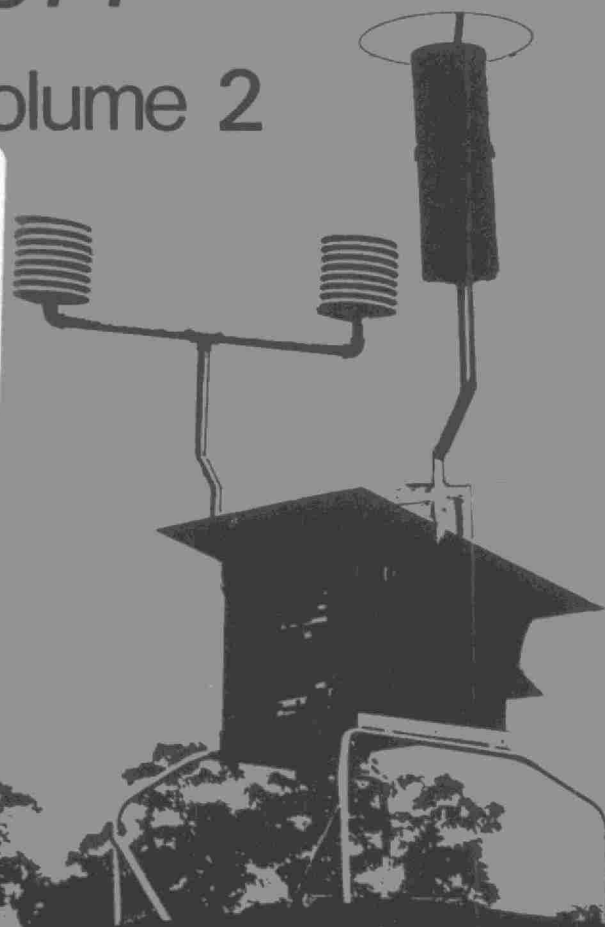


Figure 5. Locations of sampling stations in Windsor.

# AIR QUALITY MONITORING REPORTS 1977

## Volume 2

CA20N  
EV 665  
A35  
v.2



AIR MONITORING STATION



Ontario

Ministry  
of the  
Environment

Hon. Harry C. Parrott, D.D.S.,  
Minister  
Graham W. S. Scott,  
Deputy Minister

# AIR QUALITY MONITORING REPORT

## ONTARIO 1977

### VOL.2



Ontario

Ministry  
of the  
Environment

Hon. Harry C. Parrott, D.D.S.,  
Minister

Graham W. S. Scott,  
Deputy Minister

CONTENTS

Station Number	Location	No. of Months	Page
12008	467 University Avenue, Windsor	12	1
12013	Wyandotte Street, Windsor	12	8
12015	Hwy. 18 - Prospect, Windsor	12	15
12016	College - South Street, Windsor	12	22
12032	Morton Dock, Windsor	12	29
14004	Hydro SS, Concession 14/15, Courtright	12	36
14016	Lambton G.S., Hwy. 40, Courtright	12	43
14049	156 Victoria Street, Sarnia	12	50
15001	King-Rectory, London	12	57
18001	MacKenzie, R. R. #2, Tiverton	12	64
21006	Post Office, Brantford	12	71
22011	Deamude, Port Maitland	12	78
22023	Wray Manor Road, Port Maitland	11	85
22071	Experimental Farm, Simcoe	12	92
26029	Edna/Frederick Street, Kitchener	12	99
27013	PS Victoria/Leader, Niagara Falls	12	106
27027	PS 301 Beatrice Street, Welland	12	113
27037	North/Geneva Street, St. Catharines	12	120
27038	Rosehill/MacDonald, Fort Erie	12	127
29008	North Park, Hamilton	12	134
29025	Barton-Wentworth, Hamilton	12	141
29026	Brampton-Woodward, Hamilton	11	148
29080	City Hall, Hamilton	12	155
31001	67 College Street, 5th Floor, Toronto	5	162
31105	Sherbourne/Wilton Street, Toronto	5	169
33002	Pharmacy-Hwy. 401, Scarborough	12	173
33003	Lawrence-Kennedy, Scarborough	12	180
33019	Met. Branch, Scarborough Bluffs, Scarborough	12	187
34002	Science Centre, Don Mills, North York	7	194
34007	Bathurst-Wilson, North York	12	199
35003	Elmcrest Road, Etobicoke	12	206
35005	Queensway Hospital, Etobicoke	12	213
35033	Evans-Arnold, Etobicoke	12	220
35050	MOE Lab., Resources Road, Etobicoke	12	227
44007	2037 Pine, Burlington	12	234
44010	1298 Rebecca Street, Oakville	12	241
47040	Police Station, 65 Vespra Road, Barrie	7	248
48002	MTC Yard, Stouffville	12	253
51001	McDonald Gardens, Ottawa	12	260
52020	Churchill Park, Napier Street, Kingston	12	267
56051	Memorial Park, Cornwall	12	274
59006	City Hall, 500 George Street, Peterborough	12	281
61010	Lassie/Dickenson Roads, Balmertown	5	288
63012	Dawson Court, Thunder Bay	7	292
63040	435 James Street, Thunder Bay	12	297
71001	29 Hillcrest Avenue, Wawa	12	304
71002	Goudreau, Algoma District	6	311
71038	Lucie Pit, Algoma Ore, Wawa	8	315
71049	Land Registry Office, Sault Ste. Marie	12	320

Station Number	Location	No. of Months	Page
75016	Department of Transport, Verner	12	327
75020	Teacher's College, North Bay	12	334
77001	Penage, Sudbury District	12	341
77009	Burwash, Sudbury District	12	348
77010	Callum, Sudbury District	12	355
77012	Skead, Sudbury District	12	362
77013	Hanmer, Sudbury District	12	369
77014	Rayside, Sudbury District	12	376
77016	Ash Street, Sudbury	12	383
77017	Morgan, Sudbury District	12	390
77018	St. Charles, Sudbury District	12	397
77019	Grassy Lake, Sudbury District	6	404
77028	Government/Edward Coniston	12	408
77052	Lockerby, Sudbury Airshed	12	415
77065	Falconbridge Road, Sudbury	12	422
77066	Temagami, Sudbury Airshed	6	429
77067	Chiniguchi, Sudbury Airshed	6	433
77075	Kennedy Street, New Sudbury	12	437

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

		POLLUTANT - SULPHUR DIOXIDE														UNITS - 0.01 PARTS/MILLION										
		STATION - SW NO 12008 467 UNIVERSITY AV WEST F2 WINDSOR														MONTH - JAN 77										
HOUR	DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
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8	1	1	2	1	0	1	1	0	1	1	1	1	1	1	1	2	2	1	1	2	1	3	1	1	2	1
9	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	4	2	2	1	1	2	1	1	1	1	2
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PERCENTAGE OF DATA VALID - 94.1 PERCENTAGE OF DATA INVALID - 5.4 PERCENTAGE OF DATA UNAVAILABLE - 0.5

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
2. \*\* INDICATES DATA IS UNAVAILABLE  
3. \*\*\*\*\* INDICATES LEJ5 THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH																											
UNITS - 0.01 PARTS/MILLION																											
POLLUTANT - SULPHUR DIOXIDE																											
STATION - SW NO 12008 467 UNIVERSITY AV WEST F2 WINDSOR																											
MONTH - FEB 77																											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN		
1	2	2	2	3	2	2	2	1	2	2	2	2	2	3	2	2	2	1	1	1	1	3	1	2	2		
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5	1	1	1	1	1	1	2	1	1	2	2	1	2	3	3	3	3	2	2	2	2	2	2	2	2		
6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	3	4	4	5	3	3	3	2	2	3	.....		
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11	5	7	7	5	4	5	6	6	7	7	7	5	2	2	2	1	1	1	1	2	1	2	2	1	4		
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PERCENTAGE OF DATA VALID - 95.7																											
PERCENTAGE OF DATA INVALID - 3.4																											
PERCENTAGE OF DATA UNAVAILABLE - 0.9																											

PERCENTAGE OF DATA VALID - 95.7 PERCENTAGE OF DATA INVALID - 3.4 PERCENTAGE OF DATA UNAVAILABLE - 0.9

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
2. \*\* INDICATES DATA IS UNAVAILABLE  
3. \*\*\*\*\* INDICATES LEJ5 THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE														UNITS - 0.01 PARTS/MILLION											
STATION - SW NO 12008 467 UNIVERSITY AV WEST F2 WINDSOR														MONTH - MAR 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	7	7	6	5	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	1	-	0	
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3	3	3	2	2	2	2	1	2	4	***	5	7	6	5	4	4	5	5	4	4	3	3	3	3	
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5	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	3	3	1	1	2	2	1	
6	1	1	1	1	1	1	2	3	3	3	3	4	2	1	2	2	1	3	1	3	4	4	4	1	
7	2	1	-	-	2	1	1	1	1	1	1	1	1	2	1	0	0	0	1	0	1	3	4	1	
8	2	3	1	1	1	2	1	1	2	3	3	3	4	4	4	7	9	6	4	2	-	-	2	2	
9	2	3	3	4	3	3	3	2	3	2	3	2	1	1	0	3	1	2	3	2	2	2	2	2	
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17	1	1	3	3	3	2	1	1	3	1	1	1	2	2	2	2	1	1	1	1	2	1	1	0	
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22	5	2	2	3	2	1	1	0	0	1	0	1	1	1	1	1	1	1	0	0	1	0	1	2	
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24	0	1	1	1	1	1	1	2	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	
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PERCENTAGE OF DATA VALID - 96.5

PERCENTAGE OF DATA INVALID - 2.7

PERCENTAGE OF DATA UNAVAILABLE - 0.8

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE																UNITS - 0.01 PARTS/MILLION									
STATION - SW NO 12008																467 UNIVERSITY AV WEST F2 WINDSOR									
MONTH - APR 77																									
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
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6	1	1	1	1	1	2	2	1	2	1	***	***	1	1	1	1	1	1	1	1	1	1	1	1	1
7	2	2	1	1	1	1	2	3	4	1	2	2	3	2	3	4	5	4	1	1	1	1	1	1	2
8	1	1	2	1	1	1	1	1	1	1	2	2	1	2	2	2	2	2	3	2	1	1	2	1	2
9	1	2	10	10	4	3	3	3	5	6	7	4	3	4	5	5	6	6	4	3	2	1	2	1	4
10	1	2	3	1	1	1	2	2	2	2	3	6	6	6	5	4	3	2	3	3	6	3	7	6	3
11	6	6	8	6	3	2	2	5	7	7	5	4	3	3	3	3	3	5	5	6	6	8	8	5	6
12	7	11	7	10	9	9	8	9	5	7	10	5	3	2	2	3	2	3	4	5	***	-	***	5	6
13	8	5	5	6	6	7	8	8	6	5	3	4	3	3	2	1	0	0	1	1	1	1	1	1	4
14	3	3	2	1	0	0	0	0	2	3	9	9	3	3	4	2	3	8	7	10	22	15	3	4	5
15	18	8	4	6	9	4	2	2	3	2	2	3	4	3	5	3	5	5	3	4	6	5	4	5	5
16	6	4	4	3	3	2	4	3	3	2	3	2	3	3	2	3	2	3	2	2	3	2	3	3	3
17	3	3	2	2	3	2	2	2	2	2	2	3	4	4	4	4	4	4	4	4	3	2	4	3	3
18	3	4	4	4	4	3	3	4	4	2	3	4	4	4	5	4	5	5	5	3	2	2	3	2	4
19	1	1	1	2	1	1	1	1	2	***	6	8	8	7	4	3	3	4	3	4	2	2	2	1	3
20	1	3	2	2	1	2	2	1	2	1	1	1	2	2	4	3	3	2	2	1	1	1	1	1	2
21	1	1	1	1	1	1	1	2	2	4	4	5	5	1	1	1	1	2	2	2	3	2	1	1	2
22	2	2	2	2	2	2	3	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1
23	1	1	1	-	***	1	0	1	1	1	1	1	2	2	1	0	0	0	1	0	1	3	3	4	1
24	2	***	2	1	1	1	2	-	2	1	1	1	1	1	1	1	1	1	***	***	2	1	3	2	1
25	1	1	2	1	1	1	1	1	2	1	0	1	0	0	0	1	0	0	1	1	2	3	1	2	1
26	3	3	2	2	3	2	2	2	3	1	1	1	1	1	1	2	2	1	2	3	4	2	2	3	2
27	2	5	10	3	3	3	2	3	5	***	0	1	1	1	1	2	2	1	1	1	2	3	5	-	3
28	-	2	1	1	0	0	1	0	0	0	0	0	0	0	0	1	2	1	1	1	1	1	2	1	1
29	1	3	3	2	4	4	3	2	5	7	3	3	1	1	2	3	4	3	2	1	1	1	0	2	3
30	2	2	2	1	2	1	1	4	11	5	2	1	1	3	4	4	5	6	5	1	0	0	0	0	3
MEAN	3	3	3	3	3	2	2	2	3	3	3	3	3	3	2	2	2	2	3	3	2	3	2	2	2.6

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12008

467 UNIVERSITY AV WEST F2 WINDSOR

MONTH - MAY 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	1	1	1	1	1	1	1	1	2	6	6	3	2	2	1	1	0	0	1	0	1	0	1
2	0	0	0	2	2	0	0	2	-	0	1	-	-	0	0	0	1	1	0	2	2	1	4	3	1
3	4	3	2	2	2	2	1	1	1	1	-	-	0	0	0	2	1	0	1	0	0	0	1	1	1
4	0	1	1	2	1	1	1	1	1	0	0	1	1	0	0	0	1	0	-	1	0	0	2	3	2
5	3	1	0	1	1	1	0	0	1	0	3	5	4	2	2	1	3	3	3	4	1	1	1	1	1
6	3	4	2	1	1	1	3	4	1	0	***	1	1	1	1	1	1	1	1	1	2	1	1	1	1
7	1	2	1	1	1	2	2	2	1	2	2	2	2	1	2	2	2	3	3	4	4	5	4	3	2
8	3	3	13	8	12	11	10	4	3	2	2	2	2	2	2	2	1	1	2	2	1	2	2	2	4
9	2	2	2	2	2	1	3	1	1	2	1	0	0	2	1	1	2	2	1	1	3	2	1	2	2
10	2	2	2	2	2	2	1	3	3	2	2	2	3	2	1	2	2	1	2	1	2	2	3	1	2
11	2	1	4	4	2	2	2	3	5	2	1	1	2	2	2	1	1	3	3	2	***	3	3	3	2
12	4	4	3	3	2	2	2	2	3	3	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2
13	2	2	2	3	2	2	2	2	2	0	1	2	2	1	1	1	2	2	2	4	4	3	3	2	2
14	4	6	4	4	4	3	4	5	3	2	1	2	3	3	4	5	5	4	5	7	8	4	5	4	4
15	5	6	3	3	2	2	3	2	3	3	2	2	3	3	3	2	2	2	1	2	1	1	2	2	3
16	1	2	2	2	4	3	3	4	3	1	8	12	10	7	6	3	5	5	7	4	3	3	3	3	4
17	3	4	4	2	3	4	3	1	4	6	5	3	3	3	5	5	6	6	4	3	2	2	2	2	4
18	2	2	3	3	2	1	2	4	***	***	1	2	2	1	1	1	1	1	1	2	2	1	2	2	2
19	2	9	2	2	2	2	2	1	1	2	6	1	7	2	4	2	2	1	1	1	***	1	1	1	2
20	0	0	1	2	3	2	4	6	4	3	2	4	8	12	7	2	1	1	1	1	2	2	2	4	3
21	4	5	4	4	3	3	3	3	3	4	7	7	3	3	3	3	3	4	3	4	4	4	3	2	4
22	2	2	2	2	2	2	1	1	1	8	10	12	4	3	3	3	2	2	2	2	1	1	1	1	3
23	1	1	2	1	1	2	2	3	3	2	3	3	3	6	6	2	2	2	2	4	4	4	4	4	2
24	2	2	2	2	2	1	2	1	1	2	2	1	1	2	1	2	1	2	3	4	2	2	1	1	3
25	3	3	3	3	3	2	3	3	3	5	5	7	6	-	***	3	4	2	2	2	1	1	1	1	3
26	1	1	1	2	1	0	1	2	3	2	***	1	1	1	1	1	1	1	3	3	1	9	13	10	3
27	8	5	3	3	2	1	3	1	2	1	1	2	1	0	0	1	2	1	1	1	1	1	1	1	2
28	1	2	1	1	2	2	3	4	10	15	6	3	3	3	3	4	5	4	4	5	8	5	5	4	4
29	3	2	3	3	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	2
30	2	3	2	3	3	2	3	2	2	2	2	2	2	2	2	2	1	1	5	5	9	16	18	8	4
31	6	4	4	3	2	2	2	2	2	2	2	2	3	4	4	2	2	2	2	2	2	2	2	3	3
MEAN	2	3	3	2	2	2	2	3	3	3	3	3	3	3	2	2	2	2	2	2	2	3	3	3	2.5

PERCENTAGE OF DATA VALID - 98.1

PERCENTAGE OF DATA INVALID - 0.9

PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12008

467 UNIVERSITY AV WEST F2 WINDSOR

MONTH - JUN 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	5	6	7	5	3	5	2	2	2	3	2	2	2	1	1	1	2	1	1	1	0	0	0	0	2
2	2	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	4	6	1
3	5	3	2	1	0	1	0	0	0	0	0	0	3	3	5	2	5	5	4	2	1	1	1	1	2
4	1	1	2	2	1	1	2	10	6	5	4	3	3	2	4	3	3	3	5	5	3	3	3	2	3
5	2	2	3	2	2	2	3	2	2	2	2	2	4	4	4	3	2	2	2	2	2	2	1	1	2
6	2	3	4	2	2	2	2	2	1	0	1	1	2	1	1	1	1	1	1	1	1	0	2	1	1
7	0	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1
8	1	0	0	0	1	2	2	1	2	2	1	3	2	2	6	2	2	1	0	0	0	2	2	2	1
9	3	2	1	1	1	1	1	2	1	1	2	1	1	3	0	1	1	1	0	0	2	2	1	1	2
10	1	2	3	3	1	2	2	2	1	1	2	3	3	2	3	2	2	2	1	3	2	2	2	2	2
11	1	1	0	0	1	0	0	0	1	1	2	4	8	9	9	5	2	5	3	3	5	***	4	2	3
12	3	2	2	1	1	2	2	1	1	1	3	3	3	4	3	4	4	3	3	2	1	1	1	2	2
13	2	2	1	2	1	1	1	3	1	1	1	2	3	2	2	3	2	2	8	7	6	6	4	3	2
14	4	3	3	***	2	2	-	-	-	1	1	2	2	4	3	2	1	2	5	4	3	1	2	1	2
15	-	1	1	4	3	3	4	1	6	-	***	2	3	3	2	2	2	3	3	2	2	1	1	2	3
16	2	2	1	1	1	2	2	4	4	5	9	7	4	7	***	***	-	-	6	4	5	4	4	4	4
17	5	7	8	3	3	3	5	4	3	2	4	4	3	3	2	3	3	***	0	1	1	1	1	0	3
18	1	1	1	1	0	0	0	0	0	1	3	3	2	1	2	2	1	1	1	1	1	1	2	3	1
19	2	6	6	6	6	3	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	1	1
20	5	8	5	3	5	2	2	3	1	1	2	2	2	3	4	3	3	3	3	3	3	2	2	0	3
21	0	0	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	1	0	***	0	0	0	0	0
22	2	3	3	1	2	1	1	1	6	7	3	0	1	1	0	1	1	3	3	4	4	1	1	1	2
23	1	1	1	1	1	1	1	2	2	1	1	0	0	1	2	3	3	5	5	4	3	2	3	2	3
24	1	2	3	4	2	2	4	6	2	2	3	3	3	2	2	3	2	2	2	2	5	7	6	8	3
25	2	4	3	-	***	***	***	***	2	2	2	2	2	2	2	2	2	3	3	3	3	2	2	2	3
26	6	8	5	3	2	1	2	2	0	***	3	4	4	3	2	2	3	7	4	4	4	4	3	3	3
27	2	2	2	1	1	2	2	2	3	0	***	4	2	2	0	1	1	1	1	1	2	5	2	2	2
28	1	4	2	2	2	2	2	1	2	1	2	0	0	0	0	0	0	0	0	0	1	0	8	1	1
29	2	2	5	3	2	1	2	1	2	3	3	5	2	1	0	0	0	1	2	2	3	3	3	3	2
30	0	0	0	0	0	1	1	2	3	3	5	2	1	0	0	0	1	2	2	3	3	3	3	3	2
MEAN	2	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2.1

PERCENTAGE OF DATA VALID - 96.8

PERCENTAGE OF DATA INVALID - 1.8

PERCENTAGE OF DATA UNAVAILABLE - 1.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY



POLLUTANT - SULPHUR DIOXIDE													UNITS - 0.01 PARTS/MILLION													
STATION - SW NO 12008													467 UNIVERSITY AV WEST F2 WINDSOR													
MONTH - JUL 77																										
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	4	4	3	2	4	3	3	5	4	3	3	3	3	4	4	3	3	3	3	2	3	2	2	2	3	
2	3	2	2	1	1	3	6	8	5	2	2	1	1	2	2	3	2	2	2	2	3	2	2	2	3	
3	2	2	1	1	1	0	0	1	4	4	3	4	12	4	5	5	4	3	3	----	----	----	4	4	3	
4	5	4	6	6	5	6	5	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	0	0	2	
5	0	0	1	0	0	0	0	0	0	0	0	1	1	2	1	1	0	1	1	1	1	0	1	1	1	
6	0	4	3	----	----	----	3	2	1	2	4	4	----	3	3	3	3	3	3	4	5	3	3	3	3	
7	3	3	2	----	----	2	1	----	2	2	3	2	3	3	3	3	3	2	2	2	2	1	3	4	2	
8	3	2	1	1	1	0	0	2	0	0	1	1	1	1	2	2	2	4	2	2	2	2	2	2	2	
9	1	1	2	1	1	1	1	1	0	1	1	1	1	1	1	1	2	1	1	2	1	4	4	1	1	
10	0	----	1	0	0	0	2	1	1	0	0	0	0	2	2	1	1	0	1	0	0	0	0	0	1	
11	0	0	0	0	0	0	0	0	0	3	----	0	1	1	2	0	1	1	1	0	0	0	----	2	1	
12	1	0	0	0	0	0	0	0	0	1	2	3	2	2	2	3	3	2	2	2	2	3	3	2	1	
13	2	3	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14	0	0	0	0	0	0	0	1	1	2	8	----	7	6	5	5	8	7	3	3	3	3	3	3	3	
15	3	3	3	4	4	3	2	2	3	3	----	----	----	3	3	3	3	3	3	2	4	4	2	1	3	
16	1	1	1	1	2	1	1	0	0	0	1	1	1	5	6	5	2	2	1	2	----	1	0	0	1	
17	0	0	0	1	2	1	1	0	1	1	2	2	1	1	1	1	1	1	1	1	1	0	0	0	1	
18	0	0	1	1	1	1	1	2	2	----	9	5	1	1	1	2	4	4	2	2	2	2	3	3	2	
19	3	3	2	4	3	2	1	2	1	1	3	2	2	2	2	2	2	2	2	2	4	6	5	5	3	
20	3	2	2	1	1	1	1	1	1	2	2	3	3	2	3	2	3	4	4	5	4	7	4	3	3	
21	2	2	3	3	2	2	2	2	0	0	1	1	6	1	1	1	----	----	----	----	----	----	----	----	2	
22	----	----	----	----	----	----	1	1	3	3	4	3	3	4	5	4	----	2	2	2	2	2	2	2	----	
23	2	2	2	1	2	1	2	1	2	2	3	1	2	1	1	2	3	5	4	1	0	0	0	0	2	
24	0	0	0	0	0	0	1	2	4	2	2	3	2	3	----	----	----	----	----	----	----	----	----	----	2	
25	- DATA INVALID -																									
26	- DATA INVALID -																									
27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	0	0	1	1	1	1	1	1	1	0	----	
28	0	0	0	0	0	0	1	1	1	----	0	0	----	3	1	2	2	2	2	3	2	2	2	2	1	
29	1	1	1	1	1	0	0	1	5	1	0	4	5	4	5	4	4	3	2	2	2	2	1	1	2	
30	1	2	1	1	1	1	1	1	1	1	2	2	2	3	3	3	3	3	3	3	3	3	3	3	2	
31	2	2	2	2	1	1	1	2	3	3	5	4	3	3	3	3	3	3	3	2	2	3	3	2	3	
MEAN	2	2	2	1	1	1	1	2	2	1	2	2	3	3	2	2	3	3	2	2	2	2	2	2	1.9	

PERCENTAGE OF DATA VALID - 85.1

PERCENTAGE OF DATA INVALID - 13.8

PERCENTAGE OF DATA UNAVAILABLE - 1.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. -.- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LE.S THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																									
STATION - SW NO 12008		467 UNIVERSITY AV WEST F2 WINDSOR																									
MONTH - AUG 77																											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN		
1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
2	2	2	1	1	1	1	0	2	0	1	1	2	2	2	2	3	2	2	2	2	2	2	1	1	2		
3	1	1	1	1	1	1	1	1	1	1	2	3	4	3	3	2	2	2	2	2	2	2	2	2	2		
4	2	1	2	1	1	1	1	2	1	4	4	3	3	4	4	4	1	2	1	1	2	2	2	2	2		
5	1	1	0	0	1	1	1	2	2	0	2	2	2	2	2	1	2	2	1	0	1	0	0	0	1		
6	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	----	----	6	5	4	3	3	1		
7	4	9	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1		
8	1	1	2	1	1	0	0	0	0	0	0	0	0	0	7	1	0	0	0	0	0	0	1	0	1		
9	1	1	2	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	0	1	0	1	1	1		
10	1	1	1	1	1	1	1	1	1	1	2	5	4	4	5	5	5	5	3	3	3	2	3	2	3		
11	2	2	2	2	2	4	3	5	6	6	6	3	3	4	3	2	2	1	1	1	0	0	1	1	3		
12	0	0	1	0	0	0	1	1	1	4	3	2	1	1	1	1	2	3	3	1	1	0	1	1	1		
13	0	0	1	0	1	0	1	4	5	3	2	2	3	2	4	2	3	4	4	3	2	2	1	2	2		
14	3	2	2	2	1	1	1	1	1	2	2	3	3	3	4	4	4	3	3	3	5	3	3	3	3		
15	2	3	2	2	2	2	2	3	3	3	3	1	1	1	1	2	2	2	2	2	2	1	1	1	2		
16	1	1	1	1	2	2	2	1	3	7	6	4	----	1	1	1	3	2	1	0	0	0	0	0	2		
17	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	0	0	1	1	1	1	0		
18	0	1	0	0	0	0	0	0	1	0	0	1	1	1	1	1	1	2	1	1	1	1	1	1	1		
19	1	1	1	1	1	1	2	2	1	----	3	3	2	1	2	2	2	2	2	2	2	2	1	1	2		
20	1	1	1	1	1	1	0	1	1	1	1	2	2	2	2	2	2	3	5	5	2	2	2	1	2		
21	1	2	2	2	2	3	2	4	7	6	4	4	4	3	2	3	3	3	2	2	1	1	1	1	3		
22	1	1	1	1	1	1	1	1	1	1	1	2	2	3	1	0	0	0	0	0	0	1	1	1	1		
23	1	1	2	2	3	4	2	1	1	0	3	3	5	8	2	2	2	2	2	2	2	2	2	2	2		
24	4	3	4	4	2	1	1	1	2	----	2	3	3	3	3	3	2	3	2	2	3	3	2	2	3		
25	1	1	1	1	1	1	1	2	2	2	2	4	4	3	3	3	4	4	3	3	3	3	2	2	2		
26	3	2	3	4	4	3	3	4	4	4	6	7	11	3	4	5	3	3	3	3	4	4	4	3	4		
27	2	2	2	3	3	3	2	3	4	4	4	3	3	3	4	5	6	6	7	5	3	3	2	4	4		
28	5	4	3	3	2	3	2	3	4	4	4	3	3	3	4	5	6	6	7	5	3	3	2				

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12008 467 UNIVERSITY AV WEST F2 WINDSOR

MONTH - SEP 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	0	0	0	0	0	0	0	1	3	0	2	2	1	1	1	1	1	1	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	1	1	1	0	0	1	1	1	1	1	2	3	3	5	4	5	5	5	5	4	3	3	3	3	3
5	4	5	4	3	2	3	2	2	2	2	2	2	3	2	3	3	3	2	2	2	1	1	1	1	2
6	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	2	1	4	4	2	1	1	1	1
7	0	0	0	0	0	0	0	0	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	3	5	2	2	2	1	1	2	1	1	0	1	0	0	0	0	1
9	1	0	1	1	2	4	4	5	2	5	9	10	10	6	5	6	6	7	6	6	5	5	4	4	5
10	5	4	5	7	7	6	7	4	3	3	3	4	2	2	1	1	1	1	1	0	0	1	0	0	3
11	0	0	0	0	0	1	0	0	0	0	2	1	1	1	1	2	2	2	2	2	1	2	1	1	1
12	0	0	1	0	0	1	1	0	0	2	4	3	2	2	2	9	8	3	1	1	3	-	-	0	2
13	0	0	0	0	0	0	0	0	1	1	1	2	2	1	1	1	1	1	0	0	0	1	1	1	1
14	1	1	1	1	0	0	0	0	1	1	1	2	2	2	2	2	2	-	2	2	5	5	2	2	2
15	2	1	1	1	1	2	1	2	2	2	2	4	2	1	1	1	1	1	1	1	0	1	1	1	1
16	2	1	1	0	1	1	1	0	0	1	0	0	0	5	4	5	4	4	4	3	2	2	2	2	2
17	3	4	4	2	1	2	1	2	2	3	5	5	5	5	4	4	4	4	4	4	3	3	3	3	3
18	3	2	3	3	2	2	3	2	2	3	2	3	3	4	2	3	3	2	2	2	1	1	1	1	3
19	2	2	1	1	0	1	0	1	0	3	4	0	0	2	2	2	3	2	2	2	1	1	1	1	2
20	1	2	2	1	2	2	3	3	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	1	1	1	1	1
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	1	1	1	1	1	1	1
23	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	0	1
24	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	3	2	2	1	1	1	1	1	1
25	2	2	2	2	2	2	1	0	3	4	2	3	3	3	4	5	3	3	2	2	2	2	2	2	2
26	2	1	1	1	1	1	1	1	1	1	1	2	1	2	2	2	2	3	2	2	4	4	2	3	2
27	6	2	3	3	2	5	1	1	1	1	1	2	1	2	2	2	2	2	1	2	1	2	1	1	2
28	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2
29	2	2	2	2	2	4	3	3	2	1	1	1	1	1	2	1	1	0	0	0	0	1	0	1	1
30	1	0	2	2	2	4	5	2	2	2	2	4	6	3	5	2	1	1	0	1	1	2	0	0	2
MEAN	2	1	1	1	1	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1.7

PERCENTAGE OF DATA VALID - 94.4

PERCENTAGE OF DATA INVALID - 4.9

PERCENTAGE OF DATA UNAVAILABLE - 0.7

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. --\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LE'S THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12008 467 UNIVERSITY AV WEST F2 WINDSOR

MONTH - OCT 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	1	1	0
4	1	1	1	1	0	0	0	0	0	1	1	2	2	1	1	0	0	1	1	4	5	2	3	4	1
5	2	3	3	2	1	2	4	4	3	1	5	6	4	3	3	2	3	3	4	4	1	0	1	1	3
6	1	1	1	1	1	0	0	1	1	2	1	1	1	2	1	1	1	1	1	0	0	1	0	1	1
7	0	0	1	1	1	1	0	0	0	3	2	2	2	2	1	1	2	1	1	1	1	1	1	1	1
8	2	2	2	2	1	0	0	1	0	0	1	2	3	4	2	2	2	2	2	3	2	1	2	2	2
9	1	2	2	2	3	2	2	3	1	2	1	2	2	1	1	1	2	2	3	3	1	2	2	1	2
10	1	2	3	5	6	***	3	3	***	4	6	2	2	5	11	7	14	5	2	2	1	1	1	1	4
11	2	2	2	2	1	5	5	3	2	5	1	0	0	0	2	2	1	0	1	0	0	***	0	0	2
12	***	0	1	0	0	0	0	0	0	***	***	2	1	1	1	1	1	1	1	1	1	0	0	0	1
13	0	0	1	2	1	0	1	1	***	1	1	3	2	***	2	1	0	0	0	0	0	0	***	0	1
14	***	0	***	0	0	***	0	1	***	7	7	4	3	4	5	5	4	3	3	2	2	2	2	2	3
15	1	1	1	1	1	3	7	4	4	3	2	3	3	2	2	2	1	1	1	1	1	1	1	0	2
16	1	1	1	1	1	0	0	0	0	0	1	0	1	1	1	1	0	0	0	0	1	1	1	1	1
17	0	0	0	0	0	1	1	1	1	1	2	4	4	3	2	2	2	2	1	1	3	5	5	8	2
18	6	3	2	2	2	3	4	4	3	7	4	3	3	2	2	2	2	1	2	4	3	1	0	1	1
19	0	0	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	0	0	0	1	1	2	1	1	1	***	2	1	2	1	1	1	1	1	1	1	1	1
21	4	3	3	4	3	1	1	1	2	5	6	5	5	7	5	***	7	4	2	4	3	2	2	3	4
22	1	3	4	4	2	1	1	0	1	0	0	0	0	0	0	1	0	0	***	***	***	***	1	***	1
23	- DATA INVALID -																								
24	***	***	***	***	***	0	0	1	***	3	7	8	8	9	12	12	7	3	2	3	2	2	1	1	5
25	1	1	1	1	1	1	1	1	2	1	3	3	6	6	4	2	2	1	1	1	1	1	1	1	2
26	1	1	1	1	1	2	2	1	1	2	2	4	6	5	1	0	2	1	1	1	1	1	0	0	2
27	0	0	0	0	0	0	0	1	3	7	6	4	5	7	3	3	4	3	3	2	3	1	1	2	2
28	1	1	1	1	1	0	1	1	0	2	3	10	10	4	-	5	4	3	2	3	7	5	3	3	3
29	2	1	1	1	1	1	1	1	1	2	2	3	3	3	4	4	3	3	4	2	1	1	1	1	2
30	1	1	1	1	0	0	0	0	1	1	1	1	2	2	2	2	2	1	1	1	1	1	1	1	1
31	0	1	1	2	3	3	2	2	2	3	3	2	2	3	3	2	2	1	1	1	3	3	3	3	2
MEAN	1	1	1	1	1	1	1	1	1	2	2	3	3	3	3	2	2	2	1	2	2	1	1	1	1.7

PERCENTAGE OF DATA VALID - 92.2

PERCENTAGE OF DATA INVALID - 7.7

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. --\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LE'S THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - SW NO 12008		467 UNIVERSITY AV WEST F2 WINDSOR																							
MONTH - NOV 77																									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	2	2	2	2	1	1	1	1	0	1	2	3	3	3	3	2	3	3	5	4	2	2	2	2	
2	3	3	2	2	2	2	3	3	3	3	3	4	4	4	4	4	3	3	2	2	2	2	2	3	
3	3	3	3	2	2	3	3	2	1	2	2	4	4	4	5	5	5	4	4	3	4	4	5	3	
4	5	3	3	4	5	4	3	2	2	2	1	2	1	1	2	2	1	1	1	2	1	2	1	2	
5	3	3	2	1	1	1	1	2	2	2	2	2	2	2	3	3	5	5	5	5	3	3	3	3	
6	3	4	3	4	4	4	3	3	3	3	4	3	3	3	3	4	3	3	4	4	3	3	3	3	
7	3	3	3	3	3	3	3	3	2	3	3	2	2	2	2	2	1	2	2	2	1	1	2	2	
8	2	1	1	2	2	2	2	2	2	3	3	3	3	3	2	2	2	2	2	4	1	3	3	2	
9	3	3	3	3	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	
10	0	1	2	4	2	2	3	2	1	2	2	2	2	2	2	2	0	1	2	3	3	4	2	2	
11	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
13	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
14	1	1	0	2	1	0	1	0	0	0	0	2	6	3	2	2	1	1	2	3	1	1	1	1	
15	1	1	1	1	2	2	1	0	2	2	5	4	2	4	4	3	3	3	2	1	2	3	5	3	
16	3	2	2	2	3	3	3	2	1	1	2	3	4	3	3	1	2	4	4	5	2	1	1	2	
17	1	1	1	1	0	1	1	2	2	2	3	2	2	3	2	2	3	4	3	4	2	2	2	2	
18	2	3	2	1	1	0	1	0	0	1	2	3	1	2	2	2	1	0	0	1	1	1	0	1	
19	0	1	3	2	3	5	5	3	3	3	1	2	5	4	4	2	2	1	1	2	4	3	2	1	
20	2	1	2	2	3	1	3	5	4	5	4	2	1	1	1	0	0	0	1	1	1	0	0	2	
21	0	1	1	2	3	2	2	2	3	2	0	2	1	2	2	1	2	1	0	2	1	1	1	1	
22	1	1	1	1	1	0	0	0	1	0	0	1	1	2	2	3	3	4	5	1	0	0	0	1	
23	1	1	1	1	1	0	0	1	1	2	1	2	2	2	2	4	4	3	3	4	2	2	2	2	
24	2	2	2	1	2	2	2	1	2	2	2	1	2	1	2	1	1	1	1	2	1	1	1	2	
25	1	1	1	1	1	1	1	1	0	0	1	1	1	1	2	3	1	1	2	1	2	1	1	1	
26	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27	2	5	6	7	8	6	3	2	3	2	1	1	1	1	1	0	1	1	1	2	3	2	4	3	
28	5	4	6	4	5	4	4	5	5	2	5	4	6	6	5	4	4	4	5	6	6	9	4	5	
29	4	3	3	5	4	4	4	4	2	4	3	3	3	4	3	2	3	3	3	2	2	2	2	2	
30	2	1	1	2	2	3	3	3	3	1	0	0	1	2	2	2	3	3	3	3	2	2	2	2	
MEAN	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.0	

PERCENTAGE OF DATA VALID - 94.3 PERCENTAGE OF DATA INVALID - 4.0 PERCENTAGE OF DATA UNAVAILABLE - 1.7

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*-\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LEW5 THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																						
STATION - SW NO 12008		467 UNIVERSITY AV WEST F2 WINDSOR																						
MONTH - DEC 77																								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	2	2	1	1	1	0	1	1	2	2	3	3	3	3	4	4	3	1	1	1	1	3	2
2	2	2	3	4	3	3	3	2	3	5	5	3	3	3	1	2	4	4	6	5	6	5	5	4
3	4	4	5	6	6	7	3	1	1	1	2	2	2	3	4	3	2	2	2	2	2	3	4	3
4	6	6	2	2	2	2	2	3	3	2	3	3	4	6	4	4	3	4	3	3	3	3	3	3
5	2	3	2	3	3	4	4	5	5	1	2	1	1	2	1	1	0	0	0	1	0	0	0	2
6	1	1	2	1	0	0	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1
7	1	2	7	5	3	2	2	2	2	5	6	5	7	4	4	5	5	4	6	3	8	5	7	4
8	8	7	8	4	6	7	7	7	5	4	3	4	4	4	4	4	3	2	2	2	1	1	2	4
9	3	2	6	5	5	5	4	5	5	2	2	3	4	4	4	4	4	5	4	6	6	5	4	4
10	4	8	6	6	4	3	5	5	5	8	10	7	3	6	5	5	6	6	7	5	6	7	3	6
11	3	6	6	4	4	5	4	2	3	3	2	2	2	2	1	2	2	2	2	5	3	3	3	3
12	2	3	4	4	3	4	4	4	4	4	4	3	3	4	4	2	2	2	2	2	2	2	3	3
13	2	2	2	2	2	2	4	3	3	2	3	3	3	4	4	3	2	1	2	2	1	2	2	2
14	1	1	1	1	1	2	2	2	2	1	1	2	2	3	1	1	1	1	1	1	1	2	1	1
15	1	1	1	1	1	1	3	4	3	2	2	2	2	2	2	6	1	0	0	0	0	0	1	1
16	0	0	0	0	0	0	0	1	0	2	3	3	3	4	5	4	5	4	3	2	1	1	1	2
17	1	1	0	0	1	0	0	0	0	1	1	1	1	2	2	2	1	2	1	1	1	1	1	1
18	2	1	2	1	2	2	1	1	1	2	1	2	3	2	2	2	3	4	2	1	1	1	1	2
19	1	1	2	1	1	1	2	3	1	1	0	1	0	0	0	0	1	1	0	0	0	1	1	1
20	1	1	1	1	1	1	1	0	1	0	1	2	5	3	1	1	0	0	1	0	1	0	0	1
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	1	2	1	2	5	1
22	6	4	2	3	4	5	6	5	4	4	4	3	4	2	1	3	2	1	6	4	1	2	1	3
23	1	8	6	7	6	2	4	4	3	2	3	2	5	5	5	5	4	2	4	4	5	6	4	4
24	7	6	2	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1
25	1	1	1	0	0	0	1	1	1	2	1	1	2	1	1	1	2	1	1	2	3	2	2	2
26	3	3	3	3	3	2	2	3	3	3	3	3	3	2	2	1	1	0	0	2	4	2	4	1
27	2	3	5	3	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
28	4	4	4	3	3	3	2	2	0	1	0	0	4	3	2	2	1	4	6	5	5	2	3	3
29	2	4	5	5	6	6	4	2	3	4	7	6	5	6	6	2	3	2	2	4	3	2	3	4
30	2	2	3	5	7	7	7	6	7	7	9	10	9	6	3	3	3	3	2	2	1	2	1	5
31	1	1	2	2	1	2	2	2	3	3	2	3	1	2	2	2	1	1	2	1	1	1	1	2
MEAN	2	3	3	3	3	3	3	3	2	2	3	3	3	3	3	2	2	2	2	2	2	2	2	2.5

PERCENTAGE OF DATA VALID - 98.0 PERCENTAGE OF DATA INVALID - 1.3 PERCENTAGE OF DATA UNAVAILABLE - 0.7

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*-\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LEW5 THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12008 467 UNIVERSITY AV WEST F2 WINDSOR

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	29	2.8	4	11
FEB	27	2.7	7	17
MAR	31	2.3	6	17
APR	30	2.6	6	22
MAY	31	2.5	4	18
JUN	30	2.1	4	10
JUL	26	1.9	3	12
AUG	31	1.8	5	11
SEP	29	1.7	5	10
OCT	30	1.7	5	14
NOV	29	2.0	5	9
DEC	31	2.5	6	10
YEAR	354	2.2	7	22

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12008 467 UNIVERSITY AV WEST F2 WINDSOR

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	565	134	1	0	0	0	700
FEB	536	100	5	2	0	0	643
MAR	647	64	6	1	0	0	718
APR	602	93	2	3	0	0	700
MAY	656	64	7	3	0	0	730
JUN	631	66	0	0	0	0	697
JUL	594	38	1	0	0	0	633
AUG	690	41	1	0	0	0	732
SEP	637	43	0	0	0	0	680
OCT	635	47	4	0	0	0	686
NOV	639	40	0	0	0	0	679
DEC	612	117	0	0	0	0	729
YEAR	7444	847	27	9	0	0	8327

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
95.1	0	0.0	0.6	1.3	2.3	4.1	5.4	7.1	8.4	22	2.2

POLLUTANT - SULPHUR DIOXIDE															UNITS - 0.01 PARTS/MILLION											
STATION - SW NO 12013 FILTRAT PLT 3665 WYANDOTTE ST E WINDSOR															MONTH - JAN 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1																										
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										
13																										
14																										
15																										
16																										
17																										
18																										
19																										
20	0	2	3	2	2	1	2	2	2	2	2	2	2	2	0	0	1	1	1	2	2	2	4	4	3	2
21	2	4	1	1	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
22	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	1	2	3	3	3	2	0	0	0	0	1	1	1	1	1	1	1
24	2	2	2	1	1	2	2	3	3	3	2	2	1	1	1	2	0	0	0	0	0	0	0	0	0	1
25	3	3	3	2	3	3	1	1	2	2	2	2	1	1	1	0	0	0	1	1	0	0	0	0	0	1
26	0	1	2	1	0	0	0	2	3	2	2	1	1	3	1	2	3	2	3	2	2	1	1	0	1	1
27	0	0	0	0	0	1	3	1	1	2	3	2	2	1	0	0	0	3	3	3	5	3	3	2	2	2
28	0	0	0	0	0	1	3	1	1	2	3	2	2	1	0	0	0	3	3	3	5	3	3	4	2	2
29	2	2	1	1	1	2	3	4	4	3	2	2	2	2	2	2	2	2	2	3	4	3	3	4	2	
30	3	4	4	4	2	3	4	4	3	2	1	1	2	2	2	2	1	1	2	2	2	3	2	2	2	2
31	3	3	3	3	3	4	5	3	4	4	4	3	3	4	3	3	2	2	2	1	1	0	0	1	3	3
MEAN	1	2	2	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1	2	1	2	1	1	1	1	1.5

PERCENTAGE OF DATA VALID - 38.6 PERCENTAGE OF DATA INVALID - 5.0 PERCENTAGE OF DATA UNAVAILABLE - 56.5

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
 2. -.- INDICATES DATA IS UNAVAILABLE  
 3. \*\*\*\*\* INDICATES LEJ5 THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH																										
POLLUTANT - SULPHUR DIOXIDE													UNITS - 0.01 PARTS/MILLION													
STATION - SW NO 12013													FILTRAT PLT 3665 WYANDOTTE ST E WINDSOR										MONTH - FEB 77			
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	
2	0	0	0	0	1	4	4	1	2	10	****	-	4	2	7	3	3	3	4	3	2	1	1	2	3	
3	2	4	4	3	2	2	5	5	4	2	2	2	2	1	0	0	0	0	0	1	1	1	1	1	2	
4	1	1	1	1	1	1	0	1	1	3	3	3	2	2	1	0	0	0	0	0	1	1	0	1	1	
5	1	1	1	1	1	1	0	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	1	1	1	
6	1	1	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	
7	1	0	0	0	0	0	0	0	1	3	2	3	3	3	2	3	3	3	2	2	1	1	1	3	2	
8	4	2	2	2	1	2	4	6	4	4	5	4	4	4	4	5	5	5	6	4	3	4	7	9	4	
9	9	9	9	8	7	6	5	6	7	7	8	11	8	9	8	7	4	4	3	4	3	4	4	3	6	
10	3	3	4	4	2	1	1	1	1	1	6	8	7	6	4	6	6	5	3	3	3	2	3	4	4	
11	3	3	2	2	2	2	2	2	4	6	5	4	3	3	2	2	2	1	1	1	1	1	1	1	2	
12	1	1	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	1	0	0	0	0	1	0	
13	2	1	1	1	1	1	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	
14	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	
16	0	0	0	0	0	0	0	0	0	0	2	2	2	2	1	0	0	1	1	0	0	0	1	1	1	
17	1	1	2	2	1	1	1	1	3	4	4	4	4	4	3	2	2	3	3	2	1	1	1	1	2	
18	1	2	2	2	2	2	3	3	3	3	6	6	5	4	4	2	2	2	3	3	3	4	4	4	3	
19	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	2	2	
20	2	2	1	1	2	1	1	1	1	1	2	2	1	1	1	2	2	1	1	1	1	1	1	1	1	
21	1	2	2	2	1	1	1	****	****	2	2	2	3	6	5	4	2	2	2	2	2	2	1	1	2	
22	1	1	1	1	1	1	1	1	2	3	4	****	2	3	5	4	3	5	1	1	1	1	1	1	2	
23	0	0	0	0	0	0	0	0	0	0	1	0	1	2	1	1	0	0	0	0	0	0	0	****	0	
24																										
25																										
26																										
27																										
28	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	1	0	****	****	****	****	****	****	****	****	
MEAN	2	2	2	1	1	1	1	2	2	2	3	3	2	2	2	2	2	2	2	1	1	1	1	2	1.7	

PERCENTAGE OF DATA VALID - 81.7 PERCENTAGE OF DATA INVALID - 18.2 PERCENTAGE OF DATA UNAVAILABLE - 0.1

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
 2. -.- INDICATES DATA IS UNAVAILABLE  
 3. \*\*\*\*\* INDICATES LEJ5 THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12013 FILTRAT PLT 3665 WYANDOTTE ST E WINDSOR

MONTH - MAR 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	2	4	3	4	5	5	4	7	9	8	10	8	4	3	2	2	2	2	2	3	5	10	5	5
3	3	3	2	2	2	1	1	1	2	4	4	4	0	1	1	1	1	1	0	0	0	0	0	0	1
4	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1	1	2	2	1	1
5	1	0	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1
6	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	2	1	1	1
7	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	3	4	2	2
8	0	0	0	0	0	0	0	0	2	2	2	2	2	3	3	5	5	4	3	2	1	1	2	2	2
9	0	1	1	1	2	2	3	2	3	0	1	2	2	2	2	2	2	3	2	2	2	0	0	0	1
10	0	1	0	0	0	1	0	1	1	1	1	1	1	1	2	3	5	1	0	0	0	0	0	0	1
11	0	0	0	0	0	0	0	0	0	3	7	2	1	1	3	3	2	2	1	1	2	2	2	1	1
12	1	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	1	1	1	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	1	4	8	5	4	3	3	3	4	3	4	2	1	1	1
20	2	2	1	1	2	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1	2	2	1	1	2	2	2	1	1	0	0	2	4	4	4	2
22	7	3	3	5	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	1
23	1	1	1	1	1	3	4	2	4	4	4	2	1	2	1	1	1	1	1	1	1	1	1	1	1
24	- DATA INVALID -																0	1	1	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	1	0	0	0	1	2	2	2	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0
28	- DATA INVALID -																0	0	1	1	1	1	1	1	1
29	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3	3	3	3	3	4	3	4	4	3	2
30	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3	3	3	3	3	4	3	4	4	3	2
31	2	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1
MEAN	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1.0

PERCENTAGE OF DATA VALID - 84.0

PERCENTAGE OF DATA INVALID - 16.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12013 FILTRAT PLT 3665 WYANDOTTE ST E WINDSOR

MONTH - APR 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	1	2	1	0	0	0	2	1	1	1	1	1	1	1	0	0	1
2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0
3	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	2	2	1	0	0	1	2	0	2	1	1	2	1	1	1	1	1	1	1	2	1	1	1	2	1
8	1	1	2	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	2	1	1	1	1	3
9	1	3	7	5	3	***	2	3	3	3	2	3	2	2	3	5	5	3	3	2	1	1	1	1	3
10	0	1	1	1	1	1	0	2	1	1	1	3	3	3	2	2	2	2	2	4	2	2	3	2	2
11	2	2	2	1	1	1	1	2	2	3	2	2	2	2	3	2	3	3	4	4	3	3	5	4	2
12	6	8	6	6	5	5	2	4	8	7	6	4	3	3	3	3	3	5	3	7	5	6	9	6	5
13	3	3	4	7	6	5	4	4	4	4	4	3	3	3	3	3	3	2	2	3	2	2	2	1	3
14	13	18	15	6	6	5	6	7	5	11	13	10	17	6	6	5	5	7	5	8	13	3	4	3	8
15	9	7	4	5	5	2	2	3	***	0	0	0	0	0	2	0	1	2	3	3	5	5	4	4	3
16	1	2	2	2	2	2	2	2	2	1	1	2	2	1	1	1	2	2	2	1	1	1	1	1	2
17	2	1	1	1	1	2	1	1	2	2	2	2	3	4	3	3	3	3	3	3	3	3	3	2	2
18	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
19	- DATA INVALID -																1	1	1	1	1	1	1	1	1
20	2	1	2	1	2	1	2	1	2	4	4	5	4	3	2	2	3	2	3	2	2	2	2	2	2
21	2	2	2	2	2	1	2	***	1	1	0	5	***	***	***	***	0	1	0	2	1	1	1	1	1
22	1	1	1	1	1	0	0	1	0	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	3	2	4	2	3	2	2	2	2	2	1	1	0	0	0	0	0	0	1	0	1	0	1	0	1
28	1	0	1	0	1	0	1	0	0	1	0	0	0	0	0	0	1	0	1	0	1	0	1	0	0
29	0	0	2	0	2	0	0	1	0	1	0	1	0	1	0	0	1	0	1	0	1	0	1	2	1
30	0	0	2	0	2	0	0	1	0	1	0	1	0	1	0	0	1	0	1	0	1	0	1	2	1
MEAN	2	2	2	2	2	1	1	2	1	2	2	2	2	1	1	1	1	1	1	2	2	2	2	1	1.7

PERCENTAGE OF DATA VALID - 87.2

PERCENTAGE OF DATA INVALID - 12.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12013

FILTRAT PLT 3665 WYANDOTTE ST E WINDSOR

MONTH - MAY 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	1	0	1	0	2	0	0	1	0	1	0	1	0	2	0	0	1	0	1	0	1	0	1	1
2	0	1	0	1	0	1	1	0	1	0	1	0	1	0	0	1	0	2	0	1	0	1	0	1	1
3	0	0	1	0	1	1	0	0	1	0	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1
4	1	2	1	3	2	2	1	2	1	2	1	1	2	1	2	1	1	1	1	1	1	2	1	1	1
5	2	1	1	1	1	2	1	1	1	1	1	3	3	1	2	3	2	3	2	3	3	4	3	4	2
6	3	4	4	3	4	3	4	4	4	2	3	2	3	3	3	1	2	1	2	1	1	1	1	1	2
7	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	1	1	2	2	1	3	7	2	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1	1	1	0	0	0	1	0
10	0	1	1	2	0	1	1	0	1	1	1	2	1	1	1	2	1	2	1	1	1	2	1	2	1
11	1	2	1	3	2	3	2	2	2	1	1	2	2	2	1	2	2	2	4	2	3	2	4	4	2
12	4	4	3	3	4	2	4	3	3	3	2	2	2	2	2	2	3	2	2	2	2	2	2	3	3
13	3	4	3	3	3	3	3	3	3	3	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2
14	1	3	1	2	1	2	1	3	1	2	1	2	0	1	2	2	4	2	2	2	3	7	5	4	2
15	4	3	3	2	1	2	1	2	1	1	1	1	1	2	1	1	1	2	1	1	1	1	1	1	2
16	2	0	1	1	1	1	1	1	1	3	3	3	5	3	5	4	3	4	4	8	4	3	3	2	3
17	2	2	2	2	1	1	1	2	3	5	6	4	3	3	4	5	5	6	6	5	5	3	3	2	3
18	2	2	2	2	1	1	1	2	2	2	2	2	2	1	1	1	2	2	2	2	2	2	1	1	2
19	1	1	1	1	1	0	0	0	0	0	0	0	1	1	3	2	1	1	1	1	1	1	1	1	1
20	1	1	1	0	0	0	0	2	4	3	4	3	5	9	5	4	3	3	3	3	3	3	3	4	3
21	4	5	4	3	3	2	2	3	3	3	4	5	3	3	3	4	4	4	4	5	5	5	5	5	4
22	3	3	3	2	2	2	1	1	1	3	6	5	4	4	4	4	4	4	3	3	3	3	3	3	3
23	2	2	2	2	2	2	1	2	2	2	2	3	3	6	6	3	2	2	3	3	3	3	3	3	3
24	2	2	2	2	2	2	1	2	3	4	4	3	4	3	3	3	3	3	3	3	3	3	2	2	3
25	2	1	1	1	1	1	1	1	1	2	3	3	2	3	3	1	2	1	2	1	1	1	1	1	1
26	1	0	0	0	0	0	1	2	3	3	0	0	0	0	0	1	1	1	1	2	2	7	6	6	1
27	5	3	1	1	0	0	1	1	1	0	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1
28	0	0	0	0	0	0	2	2	3	5	4	1	2	2	4	4	5	5	5	5	5	7	5	4	3
29	3	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
30	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	1	1	2	4	3	9	11	9	6	2
31	4	2	2	1	1	1	1	1	1	1	1	1	3	3	3	2	2	2	2	2	2	2	1	1	2
MEAN	2	2	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	1.8

PERCENTAGE OF DATA VALID - 98.4

PERCENTAGE OF DATA INVALID - 1.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12013

FILTRAT PLT 3665 WYANDOTTE ST E WINDSOR

MONTH - JUN 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	4	3	2	2	2	2	2	2	3	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	1	2	1	1	1	0	1	1	0	1	1	1	1	2	3	3	4	4	5	3	2	1	1	1	2
4	1	1	1	2	2	2	2	3	5	4	3	2	2	2	3	3	3	4	4	5	4	4	4	3	3
5	4	3	3	3	3	3	3	2	2	2	2	2	3	2	1	2	1	2	1	3	1	2	1	1	2
6	2	1	1	1	0	0	0	0	1	1	0	1	1	1	1	2	1	2	0	0	0	1	0	1	1
7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	2	1	1	0
8	1	0	2	1	1	1	2	0	1	1	1	1	3	1	1	1	1	2	1	1	2	1	1	1	1
9	2	1	1	1	0	0	0	0	0	0	0	0	1	2	1	1	2	1	1	0	2	1	2	2	1
10	1	1	0	0	0	3	4	2	4	2	2	2	2	2	1	2	1	1	2	3	3	2	2	2	2
11	2	1	1	1	1	0	0	0	0	0	1	4	13	7	5	4	2	3	2	2	3	4	4	2	3
12	2	2	1	2	1	1	0	0	0	0	0	2	2	2	2	2	2	3	2	1	1	2	1	2	1
13	1	1	1	0	1	0	1	1	1	0	0	2	2	1	1	3	2	2	2	7	10	7	5	2	2
14	2	2	2	2	1	2	1	2	2	1	1	2	2	1	1	2	2	2	2	3	3	2	3	2	2
15	2	2	2	2	2	0	0	3	7	3	2	2	2	2	2	2	2	3	3	3	3	3	3	2	2
16	2	2	2	2	2	1	2	3	4	3	4	5	9	11	3	4	5	3	3	3	3	2	2	2	3
17	2	2	3	2	2	1	2	3	3	2	2	3	2	2	2	2	2	3	2	2	1	1	1	1	2
18	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	1	2	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	1	2	2	2	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	1
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0
22	1	2	3	2	1	1	2	1	1	0	0	0	0	0	0	1	2	3	3	2	2	2	2	1	2
23	2	1	1	1	1	1	1	1	1	1	0	1	1	1	1	3	3	2	2	2	2	2	2	2	1
24	2	2	2	3	3	3	3	4	5	4	3	3	3	3	3	3	4	4	4	4	4	3	3	3	3
25	3	3	4	3	3	3	3	2	2	2	2	3	3	4	3	3	3	3	3	5	6	6	6	5	3
26	4	6	6	4	2	2	2	1	1	1	1	1	1	1	1	2	2	3	3	3	3	2	2	2	2
27	2	2	2	1	1	0	0	0	0	1	1	1	1	1	1	1	3	6	4	6	5	5	4	5	2
28	3	3	3	3	3	3	3	4	5	7	6	6	5	5	5	6	5	6	6	6	6	6	5	5	5
29	4	3	2	3	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	2	1	1	2	2	2
30	1	1	1	0	0	0	0	1	1	2	3	0	0	0	0	1	1	2	2	2	2	2	2	2	1
MEAN	2	2	2	2	1	1	1	1	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1.7

PERCENTAGE OF DATA VALID - 99.7

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12013 FILTRAT PLT 3665 WYANDOTTE ST E WINDSOR

MONTH - JUL 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	2	2	2	2	2	2	3	3	3	2
2	1	1	1	1	1	1	2	4	4	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
3	1	1	1	1	0	0	0	0	0	3	2	2	2	8	3	3	3	3	3	4	4	4	4	4	2
4	3	3	3	3	4	4	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	2
5	1	1	1	2	1	1	1	1	1	1	1	1	2	2	3	4	6	6	6	5	5	4	3	4	3
6	3	3	4	4	2	3	4	3	2	3	4	4	4	4	4	5	5	5	5	5	6	5	5	4	4
7	5	4	4	4	3	3	3	3	3	2	3	3	5	4	4	4	4	3	3	3	3	2	2	1	3
8	2	2	1	1	1	1	0	0	0	0	0	1	1	1	1	2	3	3	3	3	2	2	1	1	1
9	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2	4	3	3
10	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	2	2	2	2	2	2	2	2	2	2	1	1	1	2	2	2	1	1	2	2	2	2	2	2	2
14	1	1	1	1	1	0	0	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	4	3	3	3	3	3	3	2	2	2	2	2	2	4	4	5	3	3	4	3	3	2	2	2	3
17	2	1	1	2	2	1	2	2	1	1	1	2	2	2	1	2	3	3	3	3	2	2	2	1	2
18	1	1	1	1	0	0	0	0	1	2	1	2	5	5	1	1	1	1	2	1	1	1	3	2	1
19	0	0	0	0	0	0	0	0	0	1	2	2	2	1	1	1	1	2	1	1	1	3	2	2	1
20	2	1	1	1	1	1	0	1	1	1	2	2	3	3	3	3	4	4	6	6	6	7	7	5	3
21	4	4	4	3	3	3	2	2	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	2
22	1	1	1	1	1	1	1	1	1	0	0	2	1	1	1	3	3	2	1	2	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1	4	3	3	4	4	6	6	4	3	3	3	2	2	3
24	2	2	2	1	2	1	2	3	5	2	2	2	2	2	2	2	2	3	2	2	2	1	1	1	2
25	1	1	1	2	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	3	3	4	4	4	4	4	3	2	2
29	2	2	2	2	2	1	1	3	4	4	4	4	4	4	4	3	2	2	1	1	1	0	0	0	2
30	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	1	1	1	2	2	2	1	1	1	1
31	0	0	0	0	0	0	0	0	0	1	1	2	1	2	1	2	2	3	3	3	3	2	2	2	1
MEAN	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3	2	2	2	2	2	1.7

PERCENTAGE OF DATA VALID - 91.4

PERCENTAGE OF DATA INVALID - 8.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12013 FILTRAT PLT 3665 WYANDOTTE ST E WINDSOR

MONTH - AUG 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2	1	1	1	0	0	0	2	2	2	2	1	1	2	2	4	4	4	4	3	3	3	3	2	2	2
3	1	1	1	1	0	0	0	0	1	1	6	9	10	6	5	3	4	4	3	2	1	1	1	0	3
4	0	1	1	1	0	0	0	1	1	1	3	1	2	3	6	6	3	3	3	3	4	3	3	4	2
5	3	2	2	1	1	1	1	1	2	1	1	1	1	1	2	2	3	3	3	4	3	3	3	2	2
6	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	
8	2	2	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
9	2	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	1	2	2	2	2	2	2	1
11	2	1	1	1	1	0	1	2	3	3	2	1	2	3	2	1	1	1	0	0	0	0	0	0	1
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	2	2	2	2	2	1	1	2	1	1	1	2	1	1	1	2	2	2	2	2	2	1	1	2	2
18	1	1	1	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1
19	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	2	1	1	1	1	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	2	3	2	1	1	1	1	1	1	0	1	0	0	0	1
22	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	3	2	2	1	1	1
23	1	2	2	2	2	2	7	3	2	1	2	2	2	2	0	0	1	0	0	0	0	0	0	0	1
24	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
25	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	1	1	1	2	4	9	3	3	3	3	3	3	3	3	2	2	2	2
27	1	2	2	1	1	1	2	2	3	4	4	4	5	5	6	7	6	6	6	5	5	4	4	4	4
28	4	4	4	4	4	3	3	4	5	6	6	6	6	7	9	9	8	9	9	9	8	7	6	6	6
29	6	6	5	5	4	4	3	3	4	4	4	3	3	3	4	2	1	1	1	0	0	0	1	0	3
30	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	4	3	2	1	1	1	1	1
31	1	1	0	0	1	1	0	0	1	1	3	7	5	5	5	5	5	4	4	4	4	4	4	3	3
MEAN	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1.5

PERCENTAGE OF DATA VALID - 89.7

PERCENTAGE OF DATA INVALID - 10.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY



POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12013 FILTRAT PLT 3665 WYANDOTTE ST E WINDSOR MONTH - SEP 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	3	3	2	2	2	2	2	2	4	4	5	4	3	3	2	1	1	1	1	0	0	0	0	0	2	
2	0	0	0	0	0	0	0	0	0	0	1	2	3	2	1	1	1	1	1	1	1	0	0	0	1	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	2	5	7	7	6	6	5	5	6	5	7	7	6	7	6	6	5	4	3	3	4	5	
5	3	3	3	2	1	1	0	0	0	0	0	0	0	0	0	1	1	3	1	1	0	0	0	1	0	
6	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	1	1	1	0	1	
7	0	0	0	0	0	0	0	2	1	1	1	1	0	0	1	1	1	1	1	1	0	0	0	1	0	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	0	0	0	0	0	1	1	2	3	4	4	5	3	4	2	3	3	4	3	2	2	1	1	1	2	
10	0	0	0	1	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	****	****	****	****	****	****	****	****	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	
12	0	0	0	0	0	0	0	1	1	1	1	1	1	1	2	5	3	2	1	0	0	0	0	0	0	
13	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
14	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	****	****	****	****	****	****	****	****	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	0	0	0	0	0	0	0	0	1	1	1	0	1	2	2	2	2	2	2	1	1	1	1	1	1	
17	1	1	1	1	1	1	1	1	1	2	2	3	4	4	4	4	3	3	3	3	3	2	2	2	2	
18	3	3	2	2	2	3	3	3	2	2	3	2	2	2	3	3	3	3	3	3	3	3	2	2	3	
19	2	2	2	2	2	2	2	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2	1	1	2	
20	1	1	1	1	0	1	1	****	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	1	****	****	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	
25	0	0	0	0	0	0	0	0	1	2	2	1	1	2	2	2	2	2	1	1	1	1	0	0	1	
26	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	****	1	1	0	0	1	1	1	1	0	
27	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
30	0	0	2	2	1	2	****	1	1	1	0	1	3	3	3	****	1	0	0	0	0	0	0	0	0	1
MEAN	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0.8	

PERCENTAGE OF DATA VALID - 93.2

PERCENTAGE OF DATA INVALID - 6.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12013 FILTRAT PLT 3665 WYANDOTTE ST E WINDSOR MONTH - OCT 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	1	1	1	1	1	0	1	1	1	1	1	2	1	1	1	1	1	1	1	2	3	3	3	3	1
5	2	2	3	3	3	3	3	3	3	2	2	2	3	4	3	3	3	3	2	3	3	2	2	2	3
6	2	2	2	2	2	1	1	2	3	3	2	1	1	1	1	2	2	1	1	1	1	1	1	1	2
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1
9	2	2	2	2	2	1	2	1	2	1	1	2	1	1	1	1	1	1	1	2	2	2	2	2	2
10	1	2	2	2	3	3	2	2	3	4	3	2	2	2	4	5	7	4	2	2	1	1	1	1	3
11	2	2	2	2	2	2	3	3	3	4	2	1	1	1	1	2	2	1	2	2	2	2	2	2	2
12	1	2	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*****
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	0	0	0	0	0	0	*****
21	0	0	1	1	1	0	0	0	1	2	3	3	3	4	5	7	5	4	3	4	4	2	2	2	2
22	2	3	3	3	2	2	2	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	2	1	1
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	1	2	5	6	7	6	10	10	6	3	2	2	2	1	1	1	3
25	1	1	2	2	1	1	1	2	2	2	2	3	4	4	3	2	2	1	1	1	1	1	1	1	2
26	1	1	1	1	1	1	1	0	0	0	1	2	5	4	4	3	3	2	1	1	1	1	1	1	2
27	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	-	-	-	-	-	-	-	-	0	0	0	1	1	1	1	1	1	0	0	1	1	0	0	0	0
29	0	0	0	0	1	2	1	0	4	4	3	2	1	1	1	1	2	1	1	0	0	0	0	0	1
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
MEAN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	0.9

PERCENTAGE OF DATA VALID - 89.4

PERCENTAGE OF DATA INVALID - 0.9

PERCENTAGE OF DATA UNAVAILABLE - 9.7

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12013 FILTRAT PLT 3665 WYANDOTTE ST E WINDSOR MONTH - NOV 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	2	3	2	2	1	
2	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1	0	0	0	0	1	
3	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	
4	1	1	1	1	1	1	2	***	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	5	1	
5	6	4	2	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	2	2	1	0	0	1	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13																										
14																										
15	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	2	1	2	1	1	*****	
16	0	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	****	1	1	1	2	2	2	2	
18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19	0	0	0	1	1	2	3	3	2	2	2	2	2	3	2	2	2	2	1	1	1	2	2	2	2	
20	1	1	0	0	0	0	0	2	3	3	4	2	1	0	0	0	0	0	0	0	1	1	1	1	1	
21	1	1	1	1	1	2	2	2	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
27	0	0	1	2	4	5	4	3	3	3	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	
28	0	0	0	0	0	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	
29	2	2	2	2	2	3	2	2	2	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	
30	1	2	1	1	1	1	1	1	0	0	0	****	1	****	****	****	****	1	2	2	2	2	2	2	2	1
MEAN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	0.7	

PERCENTAGE OF DATA VALID - 89.2

PERCENTAGE OF DATA INVALID - 10.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12013 FILTRAT PLT 3665 WYANDOTTE ST E WINDSOR MONTH - DEC 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	1	2	2	2	2	2	2	2	2	2	***	1	1	1	1	1	1	1	1	1	1	2	2	2
3	1	1	2	3	2	2	1	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1
4	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	1	1	1	1	0	1	2	4	****	4	2	3	2	1	1	1	1	1	2	1	1	1
8	1	1	1	1	1	3	4	5	4	3	2	2	2	2	2	0	0	0	0	0	0	0	0	0	1
9	0	0	0	0	0	2	3	3	1	2	2	2	2	2	2	2	2	2	2	2	2	3	3	2	2
10	3	3	2	3	2	2	2	3	3	5	6	5	3	2	2	3	1	1	3	4	6	3	4	4	3
11	3	2	3	3	3	3	3	2	3	4	3	3	2	2	2	2	2	2	2	4	2	2	2	2	3
12	2	2	2	3	3	3	3	3	3	6	5	5	4	3	3	4	4	4	4	4	3	4	4	4	4
13	4	4	2	2	2	2	2	***	0	0	0	0	0	2	2	2	1	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	1	1	0	1	0	0	1	1	1	1	1	1	1	1	2	1	0	0	0	0	0	0	0	0
16																									
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	2	1	1	1	1	0
21	1	0	0	1	1	1	1	1	3	3	2	2	1	1	1	1	1	1	1	2	2	2	2	2	1
22	2	4	3	4	3	2	5	5	4	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	3
23	3	3	6	6	4	3	3	3	4	4	5	3	3	3	2	2	2	2	2	2	3	3	4	3	3
24	4	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1
26	0	0	0	1	1	0	0	1	1	2	2	2	1	1	0	1	1	1	1	1	1	1	2	2	1
27	2	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	1
28	2	2	2	2	1	1	0	0	0	1	1	0	0	1	1	0	0	0	0	0	2	2	2	2	1
29	2	2	3	3	2	2	1	1	2	1	1	1	1	1	0	1	0	1	1	2	2	1	1	1	1
30	1	3	3	3	3	5	5	4	4	3	5	5	6	7	3	2	2	2	2	2	1	1	1	1	3
31	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1
MEAN	1	1	1	2	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1.3

PERCENTAGE OF DATA VALID - 95.4

PERCENTAGE OF DATA INVALID - 4.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12013 FILTRAT PLT 3665 WYANDOTTE ST E WINDSOR

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	12	1.5	3	7
FEB	23	1.7	6	11
MAR	26	1.0	5	10
APR	26	1.7	8	18
MAY	31	1.8	4	11
JUN	30	1.7	5	13
JUL	27	1.7	4	8
AUG	27	1.5	6	10
SEP	27	0.8	5	7
OCT	26	0.9	3	10
NOV	27	0.7	2	6
DEC	30	1.3	4	7
YEAR	312	1.4	8	18

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12013 FILTRAT PLT 3665 WYANDOTTE ST E WINDSOR

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	284	3	0	0	0	0	287
FEB	505	43	1	0	0	0	549
MAR	607	18	0	0	0	0	625
APR	575	45	5	3	0	0	628
MAY	688	43	1	0	0	0	732
JUN	673	43	2	0	0	0	718
JUL	649	31	0	0	0	0	680
AUG	623	44	0	0	0	0	667
SEP	652	19	0	0	0	0	671
OCT	652	13	0	0	0	0	665
NOV	638	4	0	0	0	0	642
DEC	690	20	0	0	0	0	710
YEAR	7236	326	9	3	0	0	7574

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
86.5	0	0.0	0.0	0.5	1.3	2.9	3.9	5.4	6.5	18	1.4

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - SW NO 12015		SEWAGE PLT HWY 18/PROSPECT WINDSOR												MONTH - JAN 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	2	2	1	1	2	2	1	2	3	4	3	3	4	2	1	1	1	0	0	0	0	1	2	2
2	1	1	1	0	0	0	0	0	0	0	1	2	3	2	2	2	1	1	0	1	1	1	1	1	1
3	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
4	0	0	1	1	2	3	2	2	3	4	3	3	3	3	5	2	1	1	1	1	1	0	0	0	1
5	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3	3	2	1	1	1	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
7	0	0	1	2	3	3	2	1	2	2	3	3	4	3	2	3	2	2	2	3	2	1	1	1	1
8	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	3	3	2	3	2	1	1	1	1	2
9	2	3	4	2	1	1	0	0	1	3	2	3	3	2	2	1	1	0	1	1	1	1	1	1	2
10	1	1	1	1	1	1	1	2	1	2	3	3	2	2	3	2	3	3	2	3	3	3	3	3	2
11	3	3	2	2	2	2	2	2	1	4	3	4	4	5	3	3	1	1	0	1	1	1	3	1	2
12	1	2	2	2	2	1	1	1	1	4	9	6	5	4	3	3	2	2	3	2	1	1	1	1	3
13	1	1	1	2	2	1	1	1	1	1	3	3	1	3	2	1	1	1	1	1	1	1	1	1	1
14	0	0	0	0	0	0	0	1	1	1	1	0	3	3	3	2	1	1	1	2	2	1	2	3	1
15	3	2	2	1	1	1	1	1	1	1	2	2	3	4	3	2	2	1	1	2	2	1	1	0	2
16	1	0	0	0	0	1	1	1	0	1	2	3	6	5	4	3	2	1	0	0	0	2	1	1	1
17	1	1	0	0	0	0	0	0	1	1	1	2	2	3	3	2	1	0	0	0	0	0	0	0	1
18	0	0	2	2	1	1	2	1	1	3	9	5	4	3	3	2	2	2	3	4	5	5	3	3	3
19	3	2	1	1	0	0	0	1	1	1	2	2	2	2	4	4	3	3	3	2	2	2	1	1	2
20	1	1	1	1	1	1	0	0	1	2	6	10	9	7	7	6	4	2	3	3	2	3	3	3	3
21	2	2	3	3	4	5	4	2	2	2	2	3	4	4	4	3	2	2	2	2	1	1	1	1	3
22	1	1	1	1	1	1	1	1	2	4	4	4	3	3	3	3	3	2	1	1	1	1	1	1	2
23	1	0	0	1	0	0	0	0	0	0	1	2	4	5	6	5	3	2	2	1	2	2	2	2	2
24	3	3	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2
25	2	2	1	1	1	1	1	1	1	1	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2
26	4	3	2	2	1	1	1	0	1	1	4	4	3	2	2	3	4	4	3	2	2	2	1	1	2
27	1	2	1	0	1	1	0	0	1	1	4	7	6	2	2	2	2	4	2	3	2	1	1	1	2
28	1	1	1	1	1	1	1	1	1	2	4	3	3	5	3	2	4	4	4	4	1	1	0	0	2
29	1	1	1	1	1	1	1	1	1	2	4	3	3	5	3	2	4	4	4	1	1	1	1	1	2
30	0	0	0	0	0	0	0	0	0	1	2	2	2	2	1	2	3	2	1	1	1	1	1	1	1
31	0	0	0	0	0	0	0	0	1	1	1	2	3	3	3	3	2	2	1	1	1	2	2	2	1
MEAN	1	1	1	1	1	1	1	1	1	2	3	3	3	3	3	3	2	2	1	2	1	1	1	1	1.7

PERCENTAGE OF DATA VALID - 98.8

PERCENTAGE OF DATA INVALID - 1.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE											UNITS - 0.01 PARTS/MILLION															
STATION - SW NO 12015											SEWAGE PLT HWY 18/PROSPECT				WINDSOR		MONTH - FEB 77									
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	2	2	2	2	2	2	2	3	3	3	4	4	4	3	3	3	****	2	1	2	3	3	3	3	3	
2	2	2	2	3	4	3	2	1	1	1	1	7	9	4	7	2	3	2	2	3	3	3	2	1	3	
3	1	1	1	2	2	1	2	2	2	2	3	4	6	5	3	5	6	5	3	2	2	2	2	3	3	
4	1	1	1	1	1	2	1	1	1	1	1	2	2	2	2	2	1	1	1	0	0	0	0	1		
5	0	0	0	0	0	0	0	0	1	3	2	2	3	3	2	3	3	2	1	1	1	1	2	1	1	
6	1	1	1	1	0	0	1	1	1	3	3	2	2	2	2	2	2	1	1	2	4	4	2	1	2	
7	1	1	1	1	1	1	3	1	1	1	2	2	4	5	6	6	4	2	1	2	4	4	2	1	2	
8	0	0	0	0	0	0	0	0	0	1	2	3	3	3	4	3	3	3	2	2	2	2	4	2	2	
9	5	6	6	6	5	5	5	5	5	6	7	****	8	7	6	6	5	4	2	2	2	1	2	3	5	
10	3	3	3	2	1	1	1	1	0	0	0	1	4	8	7	7	5	4	2	2	2	1	2	2	3	
11	2	2	2	2	2	2	2	2	2	3	5	4	6	6	7	6	5	3	3	2	2	2	1	1	3	
12	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	
13	1	1	1	1	1	1	1	1	1	1	1	2	2	1	3	4	4	4	4	7	6	6	7	7	3	
14	4	3	2	3	4	4	2	1	1	2	4	3	****	3	3	3	2	1	1	1	0	0	0	0	2	
15	0	0	0	0	0	0	0	0	0	0	1	2	2	3	3	2	2	1	1	0	0	0	0	0	1	
16	0	0	0	0	0	0	0	0	0	0	1	2	2	3	3	3	2	2	1	1	1	1	1	1	2	
17	2	2	3	2	1	0	0	0	0	1	3	3	6	6	3	4	2	2	1	1	1	1	1	1	2	
18	1	1	1	1	1	1	1	1	1	2	4	5	4	5	3	2	2	1	1	1	1	1	1	2	2	
19	2	2	1	1	1	1	1	1	1	3	3	2	2	3	2	2	2	2	2	1	1	1	1	1	2	
20	2	1	1	1	0	0	0	0	0	0	1	1	2	2	2	2	2	1	1	1	1	1	0	1	1	
21	1	1	1	1	1	1	0	0	1	3	4	5	7	7	3	1	1	0	0	0	0	0	0	0	2	
22	0	0	0	0	0	0	0	0	0	2	5	****	7	6	7	8	7	3	2	2	1	1	1	1	3	
23	0	0	0	0	0	0	0	0	0	0	1	1	3	3	3	2	1	1	0	0	0	0	0	0	1	
24	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	
25	2	2	2	2	2	1	2	2	4	5	4	3	3	3	3	3	4	3	1	3	5	2	1	2	3	
26	2	3	5	3	3	1	2	2	2	2	3	5	5	3	3	2	0	0	0	0	0	0	0	0	2	
27	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	1	
28	0	0	0	0	0	0	0	0	0	1	1	3	3	3	2	2	3	3	1	1	1	1	0	0	1	
MEAN	1	1	1	1	1	1	1	1	1	2	2	3	4	3	3	3	3	2	1	1	1	1	1	1	1.6	

PERCENTAGE OF DATA VALID - 99.4

PERCENTAGE OF DATA INVALID - 0.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE															UNITS - 0.01 PARTS/MILLION																			
STATION - SW NO 12015															SEWAGE PLT HWY 18/PROSPECT WINDSOR										MONTH - MAR 77									
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN									
1	0	0	0	0	2	1	1	1	1	2	2	3	3	2	4	3	4	4	3	4	6	5	5	7	3									
2	8	1	1	1	0	0	1	1	2	3	4	5	5	3	3	2	3	2	1	1	1	1	1	1	2									
3	0	0	0	0	0	0	0	0	1	4	4	4	***	***	2	2	2	2	2	2	1	1	1	1	1									
4	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
5	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	4	2	2	3	2									
6	3	3	3	3	4	3	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	1	2									
7	1	1	1	1	2	2	2	2	2	3	4	5	4	3	2	***	2	2	3	4	4	5	2	3	3									
8	1	0	0	0	0	0	0	0	1	3	3	4	3	3	4	5	8	6	3	2	2	2	1	2	2									
9	1	1	1	1	1	1	1	2	3	4	3	3	2	***	2	2	2	2	2	2	2	1	1	1	2									
10	1	1	0	0	0	0	0	0	1	4	4	4	3	3	4	4	6	3	2	2	1	1	0	0	2									
11	0	0	0	0	0	0	0	0	1	6	7	5	8	***	***	7	5	3	3	3	2	2	2	2	3									
12	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
13	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0									
14	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0									
15	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	3	3	3	2	2	2	2	1	0	1									
16	0	2	1	1	1	1	1	2	3	4	5	5	5	4	4	3	2	3	1	1	1	1	0	0	2									
17	0	0	0	0	0	0	0	0	2	1	1	2	4	2	2	***	1	1	0	0	0	0	0	0	1									
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
19	0	0	0	0	1	0	0	0	0	0	1	3	2	2	3	4	4	4	3	2	1	1	0	0	1									
20	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3	2	2	2	2	3	2	2	0	1									
21	0	0	0	0	0	0	0	0	0	1	2	2	2	2	2	1	1	1	0	0	0	0	0	0	1									
22	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1	1	2	1	1	1	1	1	2	0	1									
23	2	4	6	4	7	1	0	1	1	1	2	1	1	2	2	***	2	2	2	1	1	1	1	1	2									
24	1	1	2	1	1	1	1	4	3	2	3	3	2	2	2	2	2	2	2	1	1	1	1	1	2									
25	0	0	0	0	0	0	0	1	2	3	3	2	2	4	4	3	4	4	3	1	0	0	0	0	1									
26	0	0	0	0	0	0	0	1	1	0	1	1	1	1	2	2	2	1	1	1	1	0	0	0	2									
27	0	0	0	0	0	0	0	2	4	4	4	3	3	3	3	4	4	3	2	2	2	2	2	2	2									
28	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2									
29	1	1	1	1	1	0	0	2	4	4	3	3	2	2	2	2	3	3	2	2	2	1	0	0	2									
30	0	0	0	0	0	0	0	0	0	1	3	2	2	2	4	5	5	6	5	6	5	2	1	2	2									
31	2	1	1	0	1	1	0	0	0	0	***	1	2	3	1	1	1	1	1	1	1	1	0	1	1									
MEAN	1	1	1	1	1	0	0	1	1	2	2	2	2	2	2	2	3	2	2	2	2	1	1	1	1.4									

PERCENTAGE OF DATA VALID - 98.8

PERCENTAGE OF DATA INVALID - 1.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE															UNITS - 0.01 PARTS/MILLION										
STATION - SW NO 12015															MONTH - APR 77										
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	2	2	1	1	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	2	2	2	2	5	5	3	1
3	2	1	0	0	0	0	0	1	1	1	1	1	1	2	2	2	2	2	2	1	1	0	0	0	1
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	1	1	1	0	2	1	1	***	2	2	1	1	2	2	1	2	1
6	1	0	0	0	0	0	0	1	1	1	2	2	2	2	3	2	2	1	1	2	2	3	2	1	2
7	0	0	1	3	3	2	3	3	2	1	0	0	0	1	3	3	2	3	3	2	1	0	0	0	2
8	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	1	1	1	0	0	0	0	1
9	0	0	0	3	5	10	3	5	3	4	3	2	2	2	3	6	6	6	4	2	1	1	0	0	3
10	0	0	0	0	0	0	0	1	1	2	3	7	7	6	6	6	5	6	7	5	9	7	7	7	4
11	6	4	4	3	3	2	3	5	5	5	5	6	5	7	7	7	9	12	9	9	8	8	7	6	6
12	5	4	4	3	3	3	3	4	5	5	5	6	6	7	***	5	5	5	4	4	3	2	2	2	4
13	1	1	1	0	0	0	0	1	2	1	1	3	4	3	4	5	4	3	2	2	0	0	0	0	2
14	0	0	0	0	0	0	0	0	0	6	3	3	1	2	***	3	3	5	6	8	16	5	0	0	3
15	3	8	3	2	1	1	2	4	3	16	6	1	1	2	1	2	3	3	5	4	3	4	4	2	4
16	1	1	1	0	0	0	0	2	2	0	0	0	0	1	2	1	2	1	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	1	1	1	3	6	7	4	2	1	1	1	1	1	0	0	0	1
18	0	0	0	0	0	0	0	1	3	4	4	4	3	4	***	4	3	3	3	2	2	1	1	0	2
19	0	***	***	***	***	***	***	***	1	7	8	8	7	4	***	4	4	4	4	2	2	1	1	1	1
20	1	1	1	0	0	***	***	0	0	0	1	2	2	2	3	4	4	3	2	2	1	1	1	1	3
21	0	0	0	0	0	0	0	0	0	1	3	4	3	2	***	1	2	1	1	0	0	0	0	0	1
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	***	***	***	***	***	***	***	***	***	***
23	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
24	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	2	1	0	0	0	0	0	0	0	0
25	0	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
26	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
27	2	6	5	5	3	2	3	4	5	4	5	7	7	5	7	7	7	7	7	7	7	7	7	3	5
28	5	5	4	4	4	3	3	3	3	3	4	3	4	4	4	1	1	0	0	***	***	***	***	***	3
29	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
30	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
MEAN	1	1	1	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	3	2	3	2	2	2	2.0

PERCENTAGE OF DATA VALID - 85.8

PERCENTAGE OF DATA INVALID - 14.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

		POLLUTANT - SULPHUR DIOXIDE														UNITS - 0.01 PARTS/MILLION										
		STATION - SW NO 12015 SEWAGE PLT HWY 18/PROSPECT WINDSOR														MONTH - MAY 77										
HOUR	DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1		***	***	***	***	***	***	***	***	0	0	0	0	0	0	0	1	1	1	0	0	***	***	***	***	***
2		***	***	***	***	***	***	***	***	0	0	0	0	0	2	3	4	4	4	3	3	3	2	2	3	2
3		3	3	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	1	1	0	0	2
4		0	0	0	***	***	***	***	***	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	***
5		-	-	-	-	-	-	1	-	2	4	2	***	***	***	***	2	2	3	3	3	3	2	2	2	2
6		2	3	3	3	2	1	0	0	0	0	0	3	3	2	1	4	3	2	2	2	1	1	1	1	2
7		0	0	0	***	***	***	***	***	0	0	0	0	0	0	0	0	1	1	2	2	***	***	***	***	***
8		***	***	***	***	***	***	0	2	5	7	4	2	2	2	1	2	2	2	2	1	0	0	0	0	2
9		0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1
10		0	0	0	0	0	1	3	4	3	2	2	2	2	2	2	3	3	3	3	4	2	2	1	1	2
11		1	1	0	1	0	1	3	5	6	4	4	3	3	3	3	4	4	4	4	4	3	2	2	6	3
12		5	4	5	6	3	4	17	16	12	6	***	3	3	3	3	***	***	***	***	***	***	***	***	***	***
13		8	10	6	***	***	3	4	4	***	***	***	***	***	4	5	4	5	7	6	4	3	4	3	2	5
14		2	2	2	1	1	1	2	4	3	2	2	2	2	2	2	4	5	5	4	3	9	6	3	3	3
15		3	4	2	0	0	0	1	1	1	1	1	1	1	1	1	2	3	3	3	2	2	1	1	1	2
16		0	0	0	0	0	0	0	2	3	6	7	7	5	5	5	5	6	8	6	5	4	4	3	3	4
17		2	2	2	2	2	2	2	3	4	4	4	4	2	3	3	5	5	6	4	3	3	3	2	1	3
18		1	1	1	1	0	0	0	2	2	2	2	2	4	4	***	1	4	3	2	2	1	1	1	1	2
19		1	0	0	0	0	0	0	1	1	2	2	4	***	3	3	3	4	4	4	3	2	2	2	1	2
20		1	0	0	0	0	0	0	0	1	***	3	5	5	30	7	5	5	5	5	5	4	4	3	3	4
21		3	3	3	2	2	1	2	2	3	6	7	10	5	4	5	5	5	6	5	5	4	4	4	4	4
22		3	3	2	2	2	2	2	2	3	5	6	7	4	4	4	3	3	3	3	3	3	3	3	3	3
23		3	2	2	2	1	1	1	2	2	2	3	3	4	5	10	4	3	3	3	3	3	3	2	2	3
24		2	2	2	2	2	2	2	2	3	4	5	4	5	***	1	1	1	1	1	1	0	0	0	0	2
25		0	0	0	***	***	***	0	0	0	1	***	3	4	4	5	5	5	5	4	3	2	1	1	0	2
26		0	0	0	0	0	0	0	3	3	3	2	2	1	1	***	2	3	3	4	4	4	6	15	7	3
27		5	3	1	0	0	0	1	2	2	1	1	1	1	1	2	4	4	5	5	4	3	3	2	2	2
28		2	2	2	2	2	2	2	6	8	15	12	9	8	7	7	7	8	8	8	7	7	7	6	5	6
29		4	4	4	4	3	3	4	4	4	4	4	4	4	4	4	4	4	4	3	3	2	2	2	1	3
30		1	1	1	1	1	1	0	1	***	2	1	1	2	2	2	3	3	4	4	6	5	6	7	8	3
31		4	2	1	1	0	1	1	3	3	2	2	2	4	4	4	3	4	5	4	3	3	3	2	3	3
MEAN		2	2	2	1	1	1	2	3	3	3	3	3	3	4	3	3	4	4	3	3	3	3	3	2	2.7

PERCENTAGE OF DATA VALID - 86.6

PERCENTAGE OF DATA INVALID - 10.5

PERCENTAGE OF DATA UNAVAILABLE - 3.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LE5 THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH																											
POLLUTANT - SULPHUR DIOXIDE														UNITS - 0.01 PARTS/MILLION													
		STATION - SW NO 12015										SEWAGE PLT HWY 18/PROSPECT WINDSOR										MONTH - JUN 77					
HOUR	DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1		2	2	1	1	1	0	0	0	1	1	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
2																											
3																											
4																											
5																											
6																											
7		***	***	***	***	***	***	***	***	***	***	0	1	1	1	1	2	2	2	2	2	2	1	1	1	***	
8		1	1	1	1	1	1	1	0	1	2	2	3	2	3	4	2	2	2	2	1	1	1	1	0	2	
9		1	1	1	1	1	0	0	1	1	1	1	0	1	1	1	2	2	2	2	3	1	1	1	1	1	
10		0	0	0	0	0	0	2	2	1	2	2	2	2	3	5	4	4	4	4	4	3	2	2	2	2	
11		1	1	1	1	0	0	0	0	1	1	1	1	1	4	3	4	1	0	0	0	0	0	1	1	1	
12		1	1	1	0	0	1	0	0	0	0	0	0	1	1	2	2	2	2	2	1	1	1	0	0	1	
13		0	0	0	0	0	0	0	0	0	1	***	1	1	1	1	2	2	3	3	3	6	8	5	4	2	
14		2	1	1	1	0	0	0	1	3	3	1	1	1	2	2	2	2	2	3	2	2	1	1	1	1	
15		1	0	0	1	1	1	2	2	4	***	-	-	1	2	2	4	4	5	5	6	4	4	3	3	3	
16		3	2	2	2	2	2	2	1	3	3	4	3	***	***	***	***	***	***	***	***	***	***	***	***	***	
17		***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
18		4	4	4	4	3	4	3	3	3	3	5	5	5	5	5	6	7	6	6	5	4	8	5	3	5	
19		3	3	2	2	2	2	5	6	6	5	5	5	5	4	3	3	5	4	5	4	4	5	9	11	5	
20		6	3	3	3	2	1	6	2	5	3	4	5	4	4	3	3	3	2	2	2	1	1	1	1	3	
21		1	1	0	0	2	1	1	1	1	2	2	1	3	2	2	2	2	3	2	2	3	2	2	2	2	
22		2	4	2	2	2	2	3	4	4	3	2	1	2	2	2	2	4	4	4	2	3	2	3	2	3	
23		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24		0	0	0	0	0	0	3	4	4	4	3	3	3	2	2	2	1	1	1	2	0	0	0	2	2	
25		0	1	2	2	1	1	3	3	2	1	1	1	2	2	2	3	1	1	1	2	1	2	1	2	2	
26		2	2	1	1	0	1	0	1	1	3	2	2	2	2	2	4	4	3	3	3	3	3	3	2	2	
27		3	3	2	2	1	3	1	2	2	3	3	2	2	2	2	1	2	2	2	2	2	2	2	1	2	
28		1	1	1	1	1	1	1	1	2	2	3	6	7	4	3	4	4	3	3	4	4	4	4	***	3	
29		***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
30		1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	2	2	3	3	2	1	
MEAN		2	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	2	2	2	2	2.0	

PERCENTAGE OF DATA VALID - 74.0

PERCENTAGE OF DATA INVALID - 25.7

PERCENTAGE OF DATA UNAVAILABLE - 0.3

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LE5 THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY



UNITS - 0.01 PARTS/MILLION

[illegible]

PERCENTAGE OF DATA VALID - 3.3      PERCENTAGE OF DATA INVALID - 96.7      PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
2.    \*-\* INDICATES DATA IS UNAVAILABLE  
3. \*\*\*\*\* INDICATES LE.S THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLION

	STATION - SW NO 12015											SEWAGE PLT HWY 1B/PROSPECT				WINDSOR				MONTH - OCT 77										
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN					
1	2	2	2	2	2	3	3	3	3	2	3	2	***	***	***	***	***	***	***	***	***	***	***	***	***					
2												-	DATA	INVALID	-															
3												-	DATA	INVALID	-															
4												-	DATA	INVALID	-															
5												-	DATA	INVALID	-															
6												-	DATA	INVALID	-															
7												-	DATA	INVALID	-															
8												-	DATA	INVALID	-															
9												-	DATA	INVALID	-															
10												-	DATA	INVALID	-															
11												-	DATA	INVALID	-															
12												-	DATA	INVALID	-															
13												-	DATA	INVALID	-															
14	***	***	***	***	***	***	***	***	***	***	***	***	3	3	3	3	2	2	***	3	2	1	1	1	***					
15	1	1	1	1	1	1	1	1	1	2	2	3	3	2	2	1	1	1	1	0	0	0	0	0	1					
16	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	4	3	2	1					
17	0	0	1	0	0	0	0	0	1	5	5	4	***	3	3	3	2	2	2	2	3	3	4	8	2					
18	5	3	2	2	2	2	1	1	2	2	2	1	1	1	1	3	3	2	1	0	0	1	0	0	2					
19	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1					
20	0	0	0	0	0	0	0	0	0	2	3	3	3	4	3	3	2	1	1	0	0	0	0	0	1					
21	0	0	0	0	0	0	0	0	1	2	3	4	3	4	4	5	5	3	2	3	2	2	1	1	2					
22	0	0	0	1	2	2	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1					
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
24	0	0	0	0	0	0	0	0	1	5	6	5	4	6	7	3	2	2	2	1	1	1	0	0	2					
25	0	0	0	0	0	1	0	0	0	1	2	5	2	1	1	2	1	0	0	0	0	0	0	0	1					
26	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	2	1	1	0	1	1	0	1	1					
27	1	2	2	3	2	2	3	2	2	1	1	1	2	3	2	1	***	2	1	2	1	2	1	2	2					
28	2	2	2	2	2	2	1	1	1	2	3	4	3	3	6	5	3	2	1	1	0	0	0	0	2					
29	0	0	0	0	0	0	0	0	0	0	0	1	***	1	1	2	1	0	0	0	0	0	0	0	0					
30	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	1	0	0	0	0					
31	0	0	0	0	0	0	0	0	0	1	1	2	1	***	***	1	1	0	0	0	0	0	0	1	0					
MEAN	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1.1					

PERCENTAGE OF DATA VALID - 57.3      PERCENTAGE OF DATA INVALID - 42.7      PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
2. \*-\* INDICATES DATA IS UNAVAILABLE  
3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY



POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12015

SEWAGE PLT HWY 18/PROSPECT WINDSOR

MONTH - NOV 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	1	2	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	1
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1	1	1	2	1	2	2	2	2	2	2	2	2	2	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	2	2	2	2	2	2	1	0	0	1
15	0	0	0	0	0	0	0	0	0	0	1	2	1	0	1	3	3	2	2	2	2	2	1	1	1
16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	2	2	2	1	1	2	4	3
17	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	2	2	2	2	1	1	2	4	3
18	1	1	2	3	2	4	3	4	4	4	4	5	5	5	6	6	6	6	5	6	5	4	4	3	4
19	3	5	4	2	2	1	3	4	6	4	4	3	3	2	2	2	2	1	1	0	1	0	0	0	2
20	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	1	0	4	2	1	0	1	1	2	1	1	0	1	2	0	1	1	1	0	0	1	1
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3	1	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0
24	3	3	3	2	2	2	3	2	1	1	0	1	3	3	2	2	3	3	2	2	1	1	1	1	2
25	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	2	2	1	1	2	2	2	1
27	2	2	1	1	2	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	1
28	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	2	1	1	1	1	1	1	1	1	1
29	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	1	1	0	0	0	0	0	0	1
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8

PERCENTAGE OF DATA VALID - 98.5

PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 1.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12015

SEWAGE PLT HWY 18/PROSPECT WINDSOR

MONTH - DEC 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	****	0	0	1	1	1	1	0
2	3	2	2	2	2	2	4	4	5	3	2	3	3	5	3	4	3	2	2	2	2	2	3	4	3
3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	2	1	1	2	2	2	2	3	4	3
4	1	2	4	4	3	2	1	1	2	2	3	3	4	3	2	1	2	1	4	2	6	3	2	2	2
5	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	1	1	1	1	1	0	1	1	1	1	2	2	1	1	1	1	1	1	1	2	2	2	2	2	1
7	2	1	0	2	1	1	1	1	1	1	1	2	3	3	2	3	1	1	1	1	0	1	1	1	1
8	1	1	1	1	1	1	1	2	1	2	2	2	2	2	1	0	0	0	0	0	0	0	0	0	1
9	0	1	3	1	1	2	3	2	1	4	5	5	5	6	4	2	2	1	2	2	3	3	2	3	3
10	7	8	2	3	2	4	5	3	2	1	2	3	2	2	3	2	2	2	1	1	1	1	1	1	3
11	1	1	1	1	1	3	3	2	2	5	9	9	5	2	1	1	1	2	2	3	2	2	2	2	3
12	2	1	2	2	****	****	3	3	4	5	4	3	3	3	2	2	2	2	2	1	1	1	1	1	2
13	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	1	1	1	1	1	1	1	0	1	1	0	0	1	1	2	****	1	1	1	1	1	1	1	1	1
16	0	0	0	0	0	0	0	0	0	0	0	1	2	4	4	****	2	2	1	1	0	0	1	1	1
17	1	1	1	1	1	1	1	0	1	1	2	2	3	2	2	2	2	2	3	3	3	3	3	3	2
18	3	3	3	3	4	4	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
22	1	1	3	2	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	2	3	2	2	2	2	2	2	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	2	2	3	4	5	3	4	4	3	4	3	2	3	3	3	4	3	5	6	5	5	5	6	3	4
26	3	2	2	2	2	3	2	2	2	2	2	2	3	3	3	2	2	3	3	3	3	3	3	3	4
27	4	3	2	2	3	2	4	5	6	4	4	3	3	3	3	3	4	3	3	2	2	2	2	2	3
28	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MEAN	2	1	1	1	1	1	2	1	1	2	2	2	2	2	2	1	1	1	1	1	1	1	2	1	1.5

PERCENTAGE OF DATA VALID - 92.1

PERCENTAGE OF DATA INVALID - 1.3

PERCENTAGE OF DATA UNAVAILABLE - 6.6

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12015 SEWAGE PLT HWY 18/PROSPECT WINDSOR

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	1.7	3	10
FEB	28	1.8	5	9
MAR	31	1.4	3	8
APR	25	2.0	6	16
MAY	26	2.7	6	30
JUN	20	2.0	5	11
JUL	26	1.3	3	10
AUG	14	1.1	2	9
SEP	0	0.8	****	2
OCT	17	1.1	2	8
NOV	30	0.8	4	6
DEC	28	1.5	4	9
YEAR	276	1.6	6	30

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12015 SEWAGE PLT HWY 18/PROSPECT WINDSOR

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	708	27	0	0	0	0	735
FEB	607	61	0	0	0	0	668
MAR	705	30	0	0	0	0	735
APR	525	90	1	2	0	0	618
MAY	548	89	2	4	1	0	644
JUN	489	43	1	0	0	0	533
JUL	661	9	0	0	0	0	670
AUG	373	8	0	0	0	0	381
SEP	24	0	0	0	0	0	24
OCT	412	14	0	0	0	0	426
NOV	697	12	0	0	0	0	709
DEC	661	24	0	0	0	0	685
YEAR	6410	407	4	6	1	0	6828

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
77.9	0	0.0	0.0	0.7	1.6	3.3	4.4	5.9	6.8	30	1.6

POLLUTANT - SULPHUR DIOXIDE													UNITS - 0.01 PARTS/MILLION													
STATION - SW NO 12016 COLLEGE/SOUTH STREET WINDSOR													MONTH - JAN 77													
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	5	3	2	3	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	
2	0	1	3	1	0	0	0	0	0	0	2	1	1	1	1	1	1	2	2	3	2	1	1	2	1	
3	2	1	3	2	2	2	3	1	1	1	1	1	2	1	1	1	2	2	2	2	2	3	3	2	2	
4	3	3	4	3	2	2	3	3	5	4	3	2	2	3	2	2	1	0	0	0	0	0	0	0	2	
5	1	1	0	1	1	2	1	1	2	3	2	2	3	2	2	0	1	0	0	0	0	0	0	0	1	
6	0	0	0	0	0	0	0	0	0	0	2	2	2	3	4	3	2	1	1	1	2	1	2	2	1	
7	3	4	4	5	4	1	2	1	0	0	0	0	0	0	0	0	1	0	0	3	0	0	0	0	1	
8	0	0	0	0	0	0	0	1	1	3	3	1	2	3	3	2	4	3	5	3	3	1	1	2	2	
9	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	1	0	
10	2	2	1	0	0	2	2	1	0	0	3	1	0	0	0	0	1	1	5	3	3	0	1	0	1	
11	0	2	3	0	4	2	2	4	3	5	4	3	2	2	4	2	5	2	0	2	2	***	3	***	3	
12	***	***	***	3	2	2	***	***	***	***	***	4	2	2	1	2	3	1	1	1	0	0	0	2	2	
13	0	1	***	***	1	0	0	0	0	0	4	2	1	1	1	***	1	1	2	3	3	3	4	***	1	
14	***	3	3	4	4	3	3	4	4	5	6	9	5	4	3	3	4	5	5	4	2	3	2	4	4	
15	3	2	3	2	2	2	3	3	5	4	4	4	3	1	1	1	1	1	0	1	2	3	1	2	2	
16	1	2	4	2	4	3	5	5	2	***	***	5	2	4	2	2	2	1	1	1	4	3	4	6	3	
17	6	7	3	5	2	3	3	3	3	4	4	3	4	4	3	3	2	3	5	3	1	9	17	11	5	
18	9	3	3	3	3	3	2	2	2	3	5	6	3	3	2	2	3	-	-	5	7	7	7	2	4	
19	2	4	2	2	5	5	2	1	1	1	1	2	***	2	1	1	2	2	2	2	1	1	***	***	2	
20	***	***	***	***	***	***	***	***	9	6	3	7	9	***	7	4	4	2	2	3	3	4	6	5	***	***
21	2	5	7	8	6	6	6	6	5	7	4	4	2	2	2	3	2	4	4	4	3	1	1	1	4	
22	-	1	1	2	2	1	0	1	1	1	3	2	3	4	2	2	3	2	3	3	2	3	1	1	2	
23	1	1	1	0	1	1	1	1	2	1	2	5	4	6	6	5	4	2	3	4	4	4	4	3	3	
24	3	4	5	3	3	4	4	4	4	4	3	4	5	4	5	6	5	5	4	5	5	4	3	4	4	
25	3	***	3	2	3	4	4	4	3	3	3	***	***	***	1	1	1	1	0	2	3	2	4	4	3	
26	5	5	2	1	0	1	3	5	3	1	***	1	***	***	1	1	-	3	3	3	5	6	4	4	3	
27	5	5	2	3	2	3	3	4	7	***	3	3	4	2	3	2	2	3	6	7	6	5	2	2	4	
28	2	4	2	1	2	3	4	8	7	3	3	3	4	3	6	7	12	9	3	3	5	11	8	6	5	
29	***	***	***	***	***	***	***	***	***	***	7	5	4	3	5	4	4	4	3	3	3	2	1	***	***	4
30	2	4	2	2	3	8	5	2	3	4	4	5	5	3	3	3	3	3	4	4	3	4	2	3	4	
31	4	2	2	3	4	4	3	5	***	***	5	4	4	***	3	4	4	4	5	5	6	6	5	5	4	
MEAN	2	3	2	2	2	2	2	3	3	2	3	3	3	3	2	2	3	2	2	3	3	3	3	3	2.6	

PERCENTAGE OF DATA VALID - 92.7

PERCENTAGE OF DATA INVALID - 6.7

PERCENTAGE OF DATA UNAVAILABLE - 0.5

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE													UNITS - 0.01 PARTS/MILLION												
STATION - SW NO 12016 COLLEGE/SOUTH STREET WINDSOR													MONTH - FEB 77												
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	5	5	4	4	8	6	4	6	3	2	2	3	2	1	2	2	2	3	1	4	6	5	3	3	4
2	5	3	2	4	5	4	4	6	2	1	14	19	5	8	4	2	4	4	7	6	5	4	5	4	5
3	5	5	6	5	5	7	6	6	5	7	5	5	7	7	5	6	7	6	5	4	6	5	6	5	6
4	6	7	4	3	1	2	2	4	1	3	3	2	2	5	1	1	1	1	0	0	2	6	4	3	3
5	1	2	1	2	5	5	2	1	1	2	4	3	5	3	2	2	2	3	2	1	1	***	***	***	2
6	***	***	***	***	***	***	***	***	***	***	***	***	1	1	1	1	1	1	1	1	4	2	1	3	***
7	3	3	2	2	2	1	1	3	6	2	3	2	2	2	3	4	4	4	2	1	1	1	2	4	3
8	1	1	1	1	1	1	2	***	1	1	2	2	2	4	3	3	3	4	5	4	5	6	8	8	3
9	8	9	8	6	7	6	6	5	6	0	7	8	11	10	6	5	6	4	2	1	1	6	10	6	6
10	5	6	10	3	0	0	0	0	0	0	1	3	3	3	5	5	4	2	2	2	2	3	2	2	3
11	2	3	3	3	2	2	3	2	3	3	5	6	4	5	5	3	2	3	3	2	2	2	1	0	3
12	0	0	0	0	0	0	0	0	0	0	0	1	2	0	1	1	0	1	0	0	0	1	1	3	0
13	1	1	1	1	0	0	0	0	2	3	3	3	3	3	3	3	2	2	2	2	2	1	1	2	2
14	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	***	1
15	0	1	0	1	1	0	0	0	0	0	0	0	***	-	***	1	0	1	1	2	4	6	6	3	1
16	0	0	0	1	1	2	1	8	9	2	0	2	2	0	0	1	1	1	1	1	1	1	1	1	2
17	2	3	3	6	3	1	1	1	1	1	1	-	5	-	***	3	1	1	1	1	1	1	1	1	2
18	1	2	1	2	2	2	1	1	2	2	5	3	3	3	3	2	3	4	2	3	2	3	4	5	3
19	3	3	4	1	1	0	0	1	1	2	1	1	2	1	1	1	0	1	0	2	4	1	0	0	1
20	0	0	1	5	1	2	1	1	2	1	1	2	1	1	2	1	2	2	1	1	1	0	0	0	1
21	0	1	0	0	1	2	4	8	5	3	3	***	4	8	7	4	1	1	1	1	1	0	0	0	2
22	0	1	2	1	1	1	0	0	0	3	5	5	6	7	5	5	4	2	1	1	1	1	1	0	2
23	0	0	1	0	0	0	0	0	0	0	0	0	2	1	2	2	2	2	2	2	1	1	2	0	1
24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	1	2	2	0
25	2	2	2	1	3	3	3	2	5	4	4	5	3	5	4	5	5	4	6	8	7	4	3	7	4
26	5	4	-	-	4	2	1	2	2	4	3	4	3	4	3	2	2	1	1	0	0	0	1	0	2
27	0	0	1	2	2	2	1	2	1	1	1	1	3	3	4	2	3	4	2	3	2	1	1	1	2
28	1	2	2	2	2	2	2	3	3	4	3	-	4	5	1	2	3	2	6	3	2	1	2	2	3
MEAN	2	2	2	2	2	2	2	2	2	2	3	3	3	4	3	2	2	2	2	2	2	2	3	3	2.4

PERCENTAGE OF DATA VALID - 95.8

PERCENTAGE OF DATA INVALID - 3.3

PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE										UNITS - 0.01 PARTS/MILLION																
STATION - SW NO 12016										COLLEGE/SOUTH STREET WINDSOR										MONTH - MAR 77						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	0	0	3	6	7	2	2	7	1	1	1	2	1	1	1	1	2	4	6	4	5	2	-	6	3	
2	10	9	2	9	8	3	3	1	2	12	5	8	6	6	6	6	3	2	1	1	2	3	1	1	5	
3	1	1	1	1	1	1	0	1	2	4	4	4	4	3	***	2	3	3	2	2	1	2	1	0	2	
4	1	1	0	0	1	1	1	1	1	1	1	0	0	1	1	1	2	1	2	1	2	2	4	3	1	
5	2	3	1	1	1	2	3	1	1	3	2	3	3	2	2	2	2	2	3	4	4	1	2	2	2	
6	4	3	3	1	0	2	1	1	1	1	4	3	3	4	2	1	2	2	2	1	1	2	3	7	4	
7	5	2	-	-	2	4	3	2	2	1	4	2	2	2	2	5	8	5	3	2	-	-	0	1	2	
8	1	0	0	0	0	1	1	1	1	2	2	2	2	2	2	1	1	1	3	2	2	2	2	1	1	
9	1	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	2	
10	2	1	1	2	3	2	1	1	1	3	2	2	1	2	5	4	5	2	2	1	0	1	0	0	2	
11	0	0	3	1	0	1	0	1	2	4	7	6	***	4	8	5	4	2	1	1	1	1	1	2	2	
12	2	2	3	3	2	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	
13	0	0	0	0	1	0	0	0	0	0	0	2	1	3	2	0	0	0	0	0	0	1	2	0	1	
14	1	2	1	2	2	3	2	2	3	3	1	1	2	4	2	2	***	***	***	***	0	1	1	1	2	
15	1	0	0	***	0	0	0	0	0	1	0	***	***	***	1	2	1	2	1	1	2	1	1	2	1	
16	4	3	1	1	1	3	2	1	2	1	2	1	3	4	1	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	0	0	0	0	0	0	0	0	***	3	2	3	1	0	0	0	0	1	0	0	0	0	
18	0	0	1	2	1	2	0	1	1	1	5	3	2	3	2	0	0	0	0	0	0	0	0	0	1	
19	4	1	2	2	3	3	1	2	2	6	6	6	2	2	2	2	2	2	5	5	1	0	1	1	3	
20	1	3	1	2	2	2	1	1	2	1	2	2	3	5	3	2	2	2	2	4	5	5	4	4	2	
21	1	1	2	1	1	1	1	2	1	1	1	1	0	2	3	2	2	3	2	2	4	5	4	4	2	
22	5	2	2	3	2	1	1	1	1	1	0	1	1	1	1	3	1	3	1	2	2	1	1	2	2	
23	1	3	2	8	3	2	1	1	2	2	2	2	2	3	3	1	5	5	3	***	***	***	0	0	0	
24	1	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
25	0	0	0	0	0	0	0	1	2	3	1	***	2	2	2	2	3	4	5	3	2	2	2	***	2	
26	1	2	1	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	2	1	0	0	0	0	1	
27	0	0	2	2	1	2	3	3	4	4	3	3	3	3	1	2	1	1	2	2	1	2	1	1	2	
28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	***	0	1	1	0	0	0	0	0	1	
29	0	0	0	1	0	0	0	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	
30	0	0	0	0	0	0	0	1	2	2	1	2	2	2	2	4	3	3	5	4	5	4	3	3	1	
31	2	3	2	3	3	3	3	4	4	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
MEAN	2	1	1	2	2	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1.7	

PERCENTAGE OF DATA VALID - 97.0 PERCENTAGE OF DATA INVALID - 2.2 PERCENTAGE OF DATA UNAVAILABLE - 0.8

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LEJ5 THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE										UNITS - 0.01 PARTS/MILLION																
STATION - SW NO 12016										COLLEGE/SOUTH STREET WINDSOR										MONTH - APR 77						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	0	0	1	1	1	1	1	1	1	2	2	1	1	2	4	2	2	2	1	1	1	0	0	0	1	
2	0	2	1	1	1	1	0	1	2	0	0	0	1	0	0	0	-	-	1	1	2	3	3	3	1	
3	1	1	1	3	2	2	0	0	0	0	0	0	0	0	0	1	-	1	0	0	0	0	0	0	1	
4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	***	0	1	1	1	1	3	1		
5	3	3	4	3	4	3	3	4	3	3	4	5	3	4	5	3	4	4	2	1	2	2	0	3		
6	0	1	1	1	0	0	1	1	0	2	1	1	***	1	1	2	1	3	1	0	0	0	0	1		
7	2	0	0	0	0	0	3	2	1	0	1	0	2	2	2	2	2	2	1	2	0	0	0	1		
8	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	1	1	1	1	0	0	0	1	0		
9	0	2	8	7	5	4	5	3	1	3	2	2	1	2	3	5	6	5	1	0	0	0	1	0	3	
10	0	1	1	0	1	1	1	1	1	1	3	6	7	5	4	4	4	4	4	1	3	4	2	4	3	
11	3	1	1	2	1	2	2	3	4	5	4	4	3	2	3	4	5	4	4	4	5	6	4	2	3	
12	4	4	3	4	4	3	4	5	7	4	3	2	2	2	2	2	2	4	2	1	***	-	***	3	3	
13	3	1	1	4	2	1	1	2	3	7	4	3	2	4	3	0	0	0	1	***	1	2	1	2		
14	3	4	3	2	2	2	1	1	1	9	7	6	4	0	3	2	1	6	5	8	22	9	0	2	4	
15	11	13	4	5	5	6	3	2	3	11	2	0	1	2	2	0	2	4	3	2	4	5	3	2	4	
16	3	3	2	3	2	2	2	2	3	2	1	0	1	1	2	0	0	0	1	0	0	0	0	0	1	
17	1	1	1	1	1	1	1	1	1	1	0	1	3	3	4	3	1	1	1	1	0	0	0	0	1	
18	1	3	1	1	2	2	2	2	3	3	4	3	3	3	3	4	3	3	2	1	0	1	0	1	2	
19	1	1	0	0	0	0	0	0	1	2	7	0	***	8	6	4	1	2	2	1	0	0	0	0	2	
20	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	2	1	2	1	0	0	0	1	0	0	
21	0	0	0	0	0	0	0	0	0	1	1	3	3	2	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	1	0	0	0	0	0	0	0	***	0	0	0	1	0	0	0	0	0	0	0	0	0	
23	0	0	0	-	***	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	3	2	4	1	
24	1	***	1	1	1	1	1	-	-	0	0	1	1	0	0	1	1	0	***	***	0	1	1	0	1	
25	1	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	1	1	1	1	0	1	1	0	0	
26	1	2	1	2	1	1	2	2	7	2	2	3	1	1	1	1	1	1	2	2	1	1	0	0	2	
27	0	4	2	2	1	0	0	0	1	1	2	5	4	1	4	3	2	2	2	2	2	2	2	-	2	
28	-	0	1	1	1	1	0	0	1	0	1	0	0	1	1	1	1	1	1	1	0	0	0	1	1	
29	0	1	1	1	2	2	1	3	9	2	2	3	2	3	3	5	5	4	3	2	1	1	1	1	2	
30	2	2	1	1	1	1	1	2	8	6	3	2	3	5	8	10	9	9	6	3	1	1	1	2	4	
MEAN	1	2	1	2	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	2	1	1	1.7	

PERCENTAGE OF DATA VALID - 97.1 PERCENTAGE OF DATA INVALID - 1.5 PERCENTAGE OF DATA UNAVAILABLE - 1.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LEJ5 THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE													UNITS - 0.01 PARTS/MILLION												
STATION - SW NO 12016 COLLEGE/SOUTH STREET WINDSOR													MONTH - MAY 77												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	2	2	1	1	2	2	1	2	2	3	7	9	9	5	3	4	4	3	2	1	0	1	0	1	3
2	2	1	1	1	2	2	1	4	1	1	1	-	-	2	1	1	1	1	1	0	0	2	3	1	
3	3	2	2	3	2	2	1	1	1	1	-	....	....	....	....	....	....	....	1	0	0	1	1	1	
4	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	0	-	0	1	0	0	1	
5	1	1	0	0	0	0	0	1	0	1	2	2	1	2	2	2	2	2	2	1	1	1	1	1	
6	1	2	3	3	2	2	1	2	2	1	1	2	2	2	1	2	2	2	2	1	0	....	....	0	
7	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	1	2	2	1	1	1	0	1	
8	0	1	8	2	1	2	9	9	12	4	3	1	2	1	1	1	1	1	0	0	0	1	....	1	
9	1	....	2	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	1	0	1	1	0	1	1	1	1	1	0	0	0	....	0	0	
11	0	0	0	2	1	0	0	0	1	2	0	1	1	2	1	1	1	2	1	1	....	0	1	0	
12	2	1	3	2	1	0	3	4	3	3	3	0	2	0	1	2	1	2	2	4	4	4	5	2	
13	5	5	2	2	3	3	1	3	1	0	1	3	3	1	2	1	1	0	0	0	0	1	0	2	
14	1	2	1	1	0	0	0	1	1	0	0	0	0	0	1	2	2	1	1	2	5	1	1	2	
15	1	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	....	....	0	
16	....	0	0	0	0	0	1	1	3	3	8	9	6	4	2	2	3	4	4	2	1	1	1	1	
17	1	1	2	2	2	2	0	1	2	2	3	2	1	2	3	4	4	5	3	2	1	3	2	1	
18	1	1	1	1	0	0	0	3	2	2	2	1	....	4	2	0	0	0	0	0	0	0	0	1	
19	1	4	2	0	0	0	0	0	0	2	5	3	2	1	2	1	2	2	1	1	....	0	0	0	
20	0	1	1	0	1	1	1	3	3	3	2	4	11	20	6	2	1	0	0	0	0	0	1	1	
21	2	2	2	1	0	0	1	1	2	3	7	15	2	1	0	0	1	0	1	1	1	1	1	2	
22	1	1	1	1	0	0	0	0	1	4	7	10	2	1	0	0	0	0	0	0	0	0	0	1	
23	0	0	0	0	0	0	0	0	0	0	0	1	1	3	6	1	0	0	0	0	0	0	0	1	
24	0	0	0	0	0	0	0	0	1	1	2	1	0	1	1	1	1	1	1	1	0	0	0	1	
25	0	0	0	0	0	0	0	0	0	1	2	2	2	-	....	1	2	2	1	2	0	0	1	1	
26	2	2	2	2	1	2	3	1	3	2	2	2	2	2	2	3	2	2	2	4	3	8	17	9	
27	7	5	3	1	2	1	1	2	2	1	1	1	1	2	2	2	2	2	2	1	1	1	0	2	
28	0	0	0	0	0	0	1	6	13	11	3	3	3	4	3	3	3	3	3	3	3	3	3	3	
29	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	2	1	0	0	1	2	
30	1	2	2	1	2	2	1	2	1	2	1	1	2	2	2	1	1	1	3	5	7	13	12	8	
31	5	3	2	1	1	1	0	1	2	1	1	2	3	4	3	1	1	2	1	1	1	0	0	2	
MEAN	1	2	2	1	1	1	1	2	2	2	3	3	2	2	2	1	1	1	1	1	1	1	2	1.5	

PERCENTAGE OF DATA VALID - 96.6 PERCENTAGE OF DATA INVALID - 2.6 PERCENTAGE OF DATA UNAVAILABLE - 0.8

- NOTES 1. "...." INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
 2. "-" INDICATES DATA IS UNAVAILABLE  
 3. "...." INDICATES LE.S THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE													UNITS - 0.01 PARTS/MILLION											
STATION - SW NO 12016 COLLEGE/SOUTH STREET WINDSOR													MONTH - JUN 77											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	3	2	2	1	2	2	2	2	2	1	4	3	3	2	2	2	2	2	1	0	1	1	2	2
2	2	1	3	2	1	1	1	1	1	1	1	1	4	0	1	0	1	1	1	0	0	0	2	1
3	3	3	2	1	1	0	1	1	0	0	5	4	4	4	2	5	4	4	3	1	0	0	0	2
4	0	0	0	0	0	0	1	3	2	3	2	2	1	2	3	3	3	3	1	1	1	0	1	
5	0	0	0	0	1	1	1	0	0	0	1	2	2	1	1	1	1	1	1	0	0	0	0	1
6	0	0	1	0	0	0	1	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0
7	0	1	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0
8	0	0	0	0	0	1	1	0	1	0	1	2	1	2	4	2	1	1	1	1	1	1	1	1
9	2	1	0	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	0	2	4	2	....	
10	1	1	2	2	1	2	2	1	2	2	2	2	2	3	2	2	2	2	2	2	1	0	1	2
11	0	0	0	0	0	0	0	0	1	1	1	8	7	7	6	2	2	1	1	2	....	1	0	2
12	0	1	1	1	1	0	0	0	0	0	1	1	2	2	2	3	3	1	1	0	0	0	1	1
13	1	1	1	0	0	0	1	1	1	1	1	0	0	1	1	1	1	1	4	10	6	4	2	2
14	1	2	1	....	0	0	-	-	0	0	0	0	1	1	2	1	1	2	1	2	0	1	1	1
15	....	0	1	1	2	2	3	5	4	-	....	1	1	0	0	1	1	1	1	0	....	0	1	1
16	0	0	0	0	0	....	0	1	1	1	8	14	5	1	3	2	-	3	2	2	1	1	1	2
17	1	3	3	2	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	....	0	1	1
18	1	0	0	0	0	....	0	0	0	0	0	0	0	0	1	1	1	1	1	2	1	3	3	1
19	3	3	4	5	3	4	2	1	0	0	0	0	0	0	1	0	1	1	1	0	0	1	3	1
20	5	7	3	1	0	0	1	2	2	2	1	2	1	0	1	0	1	1	1	0	0	0	0	1
21	0	0	0	2	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	1	1	1	0
22	1	2	2	2	2	1	1	3	5	1	....	0	0	0	0	0	1	1	1	2	0	0	0	1
23	1	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	1	1	0	0	0	0	0	1
24	0	0	1	1	0	0	1	2	4	2	1	1	1	1	1	1	1	1	1	1	1	0	0	1
25	0	1	1	-	-	....	....	....	1	2	1	1	1	1	1	1	1	1	1	2	3	4	4	5
26	5	5	3	1	0	0	0	1	1	2	1	1	0	1	1	2	2	1	2	2	1	1	1	2
27	1	1	1	1	0	1	1	1	1	2	2	2	2	1	2	1	2	4	2	2	2	1	1	2
28	1	1	1	1	1	0	0	-	0	2	2	1	3	1	1	0	1	0	0	2	1	0	0	1
29	0	0	1	2	1	2	4	2	2	2	1	1	0	1	1	1	1	1	1	1	1	2	3	1
30	1	0	0	....	0	....	....	1	0	1	2	0	0	0	1	0	1	0	0	0	0	0	0	0
MEAN	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1.1

PERCENTAGE OF DATA VALID - 96.5 PERCENTAGE OF DATA INVALID - 2.2 PERCENTAGE OF DATA UNAVAILABLE - 1.3

- NOTES 1. "...." INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
 2. "-" INDICATES DATA IS UNAVAILABLE  
 3. "...." INDICATES LE.S THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - SW NO 12016		COLLEGE/SOUTH STREET WINDSOR												MONTH - JUL 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	1	3	1	1	2	3	3	2	1	1	3	2	2	2	2	2	0	0	2	4	4	0	2
2	0	0	1	0	0	0	5	6	4	5	1	1	0	1	1	2	1	1	1	0	0	0	0	0	1
3	0	0	0	0	0	0	0	0	2	3	1	2	4	1	2	2	2	1	1	1	1	0	0	2	1
4	3	1	2	3	3	2	2	3	2	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	2	2	1	2	2	2	1	0	0	1
6	2	3	2	1	2	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0
7	0	0	0	0	0	0	0	0	0	0	1	2	3	2	2	2	2	2	2	1	1	0	0	1	1
8	1	1	1	1	1	0	0	0	0	1	1	0	1	1	1	1	1	1	1	1	1	4	3	2	1
9	1	1	1	1	1	0	0	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0
10	1	0	0	0	0	0	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0
11	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	2	1	1	1	1	1
12	1	1	1	1	1	0	0	1	1	1	0	1	1	2	3	2	2	2	2	2	2	2	2	3	1
13	2	4	4	3	3	2	3	4	4	4	3	1	1	0	0	0	1	1	1	1	1	1	1	1	1
14	0	0	0	0	0	0	0	0	1	2	4	1	4	3	3	4	4	3	1	1	1	1	1	1	1
15	1	1	2	2	2	1	1	1	2	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1
16	1	1	1	1	2	1	0	1	0	1	0	0	0	1	2	2	1	1	1	1	0	0	0	0	1
17	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1	2	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	0	0	0	0	0	0	0	0	0	0
19	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	1	2	2	1	2	2	2	2	2	2	2	1	1	2	1
21	1	1	2	1	1	1	1	2	1	1	1	1	2	1	1	1	1	1	1	1	1	0	0	0	1
22	1	0	1	1	1	1	1	1	0	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0	1
23	0	1	1	0	0	0	0	1	0	2	3	1	2	2	2	4	5	4	3	1	0	0	0	0	1
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0
27	0	1	0	0	0	0	0	0	0	1	1	2	1	2	2	2	3	2	3	2	2	2	2	1	1
28	0	1	1	0	0	0	0	1	1	1	1	3	2	3	1	2	2	1	2	1	0	0	0	0	1
29	2	1	1	1	1	1	1	1	0	0	0	0	1	3	2	2	1	2	1	1	0	0	0	0	1
30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	2	2	1	2	1	1	0	0	0	1
31	0	0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
MEAN	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9

PERCENTAGE OF DATA VALID - 94.9

PERCENTAGE OF DATA INVALID - 3.9

PERCENTAGE OF DATA UNAVAILABLE - 1.2

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. -.- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - SW NO 12016		COLLEGE/SOUTH STREET WINDSOR												MONTH - AUG 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	1	1	1	1	1	1	2	1	1	1	0	1	1	1	1	0	0	0	0	0	0	0	1
2	1	0	0	0	0	0	0	0	1	1	0	1	1	2	1	2	1	0	1	1	1	0	0	0	1
3	0	0	0	0	0	0	0	0	1	6	9	7	2	1	2	2	1	2	2	1	1	0	0	1	2
4	1	2	1	2	1	1	1	1	1	1	3	2	2	3	6	4	2	2	2	1	1	1	1	1	2
5	1	1	1	0	1	0	1	1	1	0	1	0	0	1	0	0	0	0	0	3	3	1	2	2	1
6	2	2	2	2	2	3	3	2	2	2	3	3	3	3	3	2	2	1	1	1	1	1	1	1	2
7	1	1	1	2	1	1	1	1	2	2	2	3	2	3	3	3	3	3	3	3	2	2	2	2	2
8	3	4	4	3	3	3	2	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
9	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	1	0	0	0	0	0	1	2	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	2	3	1	1	1	2	3	2	1	2	1	0	0	0	0	0	1
13	1	0	0	1	1	1	0	1	2	1	0	0	1	1	1	0	0	1	1	0	0	0	0	0	1
14	0	0	0	1	1	1	1	1	0	0	0	1	1	1	2	1	1	1	0	1	1	0	0	0	0
15	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	1	0	0	0	0	1
17	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	1	1	1	0	1	0	1	0	1	0	0	1	0	0	1	1	1	1	0	0	0	0	1
19	0	0	0	0	0	0	0	0	3	0	0	0	3	2	1	1	0	0	0	0	0	0	2	0	1
20	0	0	0	0	1	0	0	0	1	1	1	1	1	1	2	1	3	2	3	2	0	2	2	0	1
21	2	2	2	3	4	5	3	6	4	2	1	1	1	0	0	0	0	1	0	0	0	1	1	1	2
22	1	1	2	0	0	0	0	0	0	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0
23	0	0	1	1	2	4	1	1	1	0	1	1	1	2	1	0	0	0	0	0	0	0	1	1	0
24	1	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1
25	0	0	0	0	0	0	0	0	0	0	10	0	0	1	0	0	1	1	1	0	0	0	0	0	1
26	0	1	1	1	1	1	1	2	2	3	7	12	6	4	3	4	3	2	2	2	2	2	1	1	3
27	2	1	1	1	1	0	1	2	1	0	3	1	1	1	1	0	0	0	0	0	0	0	0	0	1
28	0	0	0	1	1	0	1	0	1	2	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0
29	2	2	1	2	2	1	2	2	2	2	1	1	0	0	1	3	4	6	3	0	1	1	1	1	1
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	0	0	0	0	0	0	1
MEAN	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	0	1	0	0.9

PERCENTAGE OF DATA VALID - 96.5

PERCENTAGE OF DATA INVALID - 3.4

PERCENTAGE OF DATA UNAVAILABLE - 0.1



POLLUTANT - SULPHUR DIOXIDE													UNITS - 0.01 PARTS/MILLION												
STATION - SW NO 12016 COLLEGE/SOUTH STREET WINDSOR													MONTH - NOV 77												
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	0	1	1	1	0	0	0	0	0	1	1	0	1	1	0	1	2	2	2	3	1	1	1
2	1	1	1	-	1	0	1	1	1	1	1	2	1	1	1	2	2	1	1	1	1	1	0	0	1
3	1	1	1	1	1	1	1	1	0	1	1	1	1	2	2	1	1	1	1	1	1	1	0	1	1
4	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	1	1
5	2	1	1	0	1	1	1	0	0	0	0	0	0	1	0	1	0	1	0	0	1	0	0	1	0
6	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	0	0	0	1
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	1	0	0	1	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
9	0	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
10	0	0	1	1	1	1	2	2	2	1	1	2	2	2	3	2	2	1	0	0	3	3	1	0	1
11	1	1	1	4	3	1	2	3	2	3	3	3	1	1	3	2	2	0	2	0	0	0	1	0	2
12	1	2	3	3	2	2	1	0	1	1	0	0	1	0	0	1	0	1	0	0	1	1	0	0	1
13	1	1	1	1	1	0	1	0	0	0	1	1	1	1	2	1	0	0	1	1	0	1	0	0	1
14	0	2	1	1	1	0	1	0	0	0	1	4	7	2	2	1	1	1	2	2	1	0	1	1	1
15	0	1	1	2	3	1	1	1	0	2	3	2	1	2	5	2	1	2	1	1	1	2	2	2	2
16	2	1	1	1	2	2	1	1	0	1	0	1	2	2	1	2	1	1	1	1	1	1	1	2	1
17	0	0	0	1	0	0	0	0	0	1	0	1	2	2	0	0	0	0	1	1	0	1	1	1	1
18	1	1	1	2	1	1	1	1	0	0	1	1	2	2	0	0	0	0	1	1	0	1	1	0	1
19	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	0	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	1
21	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	0	1	0	1	0	1	1	1	1	3	5	1	1	1	0	0	1
23	0	0	0	0	0	0	0	0	0	1	1	1	2	2	1	2	3	3	3	3	4	3	3	3	1
24	3	2	2	2	3	2	1	1	2	2	0	1	1	1	2	2	2	2	2	1	2	1	1	1	2
25	2	1	1	1	1	1	1	1	0	0	0	1	2	3	1	3	1	2	2	1	1	2	1	1	1
26	0	1	1	1	2	1	1	0	1	2	1	0	1	1	0	0	1	2	1	2	1	3	2	1	1
27	2	5	2	4	5	6	2	2	1	1	1	0	1	2	1	1	1	2	2	3	3	3	3	5	2
28	5	4	2	3	3	3	3	2	2	3	3	2	3	3	2	1	2	2	2	3	3	1	1	1	2
29	1	1	0	2	3	3	3	-	2	2	2	3	3	3	2	1	1	2	2	2	1	1	1	1	2
30	1	-	1	1	1	1	1	1	-	-	0	0	0	0	0	0	0	1	1	1	1	0	0	1	1
MEAN	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0

PERCENTAGE OF DATA VALID - 97.2

PERCENTAGE OF DATA INVALID - 1.4

PERCENTAGE OF DATA UNAVAILABLE - 1.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - SW NO 12016		COLLEGE/SOUTH STREET WINDSOR												MONTH - DEC 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	1
2	3	4	4	4	4	4	3	4	5	2	5	4	3	4	4	4	3	4	2	4	3	4	3	5	4
3	3	3	3	2	2	2	3	1	1	0	1	1	1	1	0	1	1	1	1	2	2	2	2	4	2
4	3	5	3	1	1	1	2	1	1	1	1	1	1	3	2	2	2	1	1	1	1	0	1	1	2
5	1	1	1	1	1	2	2	0	2	2	1	1	2	1	1	1	0	1	1	1	1	0	1	1	1
6	1	1	1	1	2	2	3	3	3	3	4	3	2	1	2	1	0	1	1	2	1	1	1	1	1
7	2	3	5	8	6	6	7	7	8	4	3	4	6	1	3	5	3	0	1	1	3	1	1	1	2
8	4	4	5	2	2	2	2	3	2	2	1	1	2	2	2	1	1	1	1	1	3	2	2	4	2
9	2	4	5	4	5	4	4	3	4	3	2	3	2	2	2	3	2	3	4	3	3	4	5	4	3
10	2	2	3	7	5	4	4	7	6	5	2	2	2	2	3	2	2	3	3	2	1	1	4	3	3
11	3	2	4	5	4	5	2	1	5	5	7	7	4	3	2	1	1	1	1	4	2	1	1	1	3
12	0	1	2	2	1	2	2	2	2	3	3	2	1	1	2	2	2	2	2	2	2	2	2	2	2
13	2	2	2	2	2	2	2	3	2	2	3	3	3	3	2	1	2	2	2	2	1	2	1	1	2
14	1	1	0	1	1	2	1	0	1	1	1	2	2	1	1	1	1	2	2	2	3	3	3	3	2
15	2	2	1	1	2	3	3	3	2	2	1	1	1	1	1	1	1	2	2	2	3	3	3	3	2
16	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1	2	2	1	1	1	1	1	1	2	3	3	3	3	4	4	4	3	2	2	1	1	1	1	2
18	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1
19	0	1	0	0	0	1	1	1	0	0	0	2	3	2	1	0	0	0	1	2	0	1	0	0	1
20	1	1	1	2	1	1	1	0	0	0	0	3	5	3	1	1	1	1	0	1	0	1	1	1	1
21	0	0	1	1	0	0	0	1	0	1	1	0	0	1	1	0	1	1	1	1	1	1	1	1	1
22	2	5	5	6	3	3	2	3	4	4	5	1	1	1	1	1	0	1	5	4	1	1	1	1	1
23	5	10	3	5	6	3	6	3	2	2	2	1	2	4	4	5	2	1	2	2	3	5	2	2	3
24	1	2	1	1	1	1	1	1	1	0	1	1	1	1	2	1	1	0	1	0	0	0	3	3	1
25	3	3	2	3	3	4	3	3	3	4	3	4	3	3	3	2	2	3	3	6	6	6	5	4	4
26	4	3	4	3	3	3	2	3	2	3	2	2	2	2	2	2	2	3	3	3	6	5	5	3	3
27	3	3	3	3	4	1	3	3	2	1	2	1	1	2	2	3	2	2	2	2	2	2	5	2	2
28	2	3	3	3	2	1	2	1	1	1	1	1	1	2	1	1	1	1	2	3	4	4	8	9	2
29	8	5	2	2	1	3	1	1	2	3	3	3	4	4	3	2	1	1	2	3	2	1	1	2	3
30	1	2	3	3	3	4	2	2	3	2	4	2	4	5	2	1	1	2	3	1	1	1	1	0	2
31	0	0	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2.1

PERCENTAGE OF DATA VALID - 98.3

PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE - 0.7

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY



## MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12016 COLLEGE/SOUTH STREET WINDSOR

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	29	2.6	5	17
FEB	27	2.4	6	19
MAR	31	1.7	5	12
APR	30	1.7	4	22
MAY	31	1.5	3	20
JUN	30	1.1	2	14
JUL	31	0.9	2	6
AUG	31	0.9	3	12
SEP	30	0.9	3	9
OCT	31	0.9	2	8
NOV	30	1.0	2	7
DEC	31	2.1	4	10
YEAR	362	1.5	6	22

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

## MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12016 COLLEGE/SOUTH STREET WINDSOR

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	590	96	3	1	0	0	690
FEB	530	111	2	1	0	0	644
MAR	676	45	1	0	0	0	722
APR	648	47	3	1	0	0	699
MAY	680	30	6	3	0	0	719
JUN	676	18	1	0	0	0	695
JUL	702	4	0	0	0	0	706
AUG	706	11	1	0	0	0	718
SEP	691	18	0	0	0	0	709
OCT	716	20	0	0	0	0	736
NOV	692	8	0	0	0	0	700
DEC	675	56	0	0	0	0	731
YEAR	7982	464	17	6	0	0	8469

## FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
96.7	0	0.0	0.0	0.6	1.3	3.0	4.3	5.9	7.4	22	1.5













MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12032 MORTON DOCK BEDFORD/OJIBWAY WINDSOR

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	25	2.3	4	7
FEB	24	2.4	5	17
MAR	26	1.8	3	9
APR	25	1.7	4	17
MAY	28	2.4	4	28
JUN	28	2.0	4	22
JUL	28	1.9	3	8
AUG	26	1.7	4	11
SEP	28	1.5	4	10
OCT	27	1.5	4	10
NOV	25	1.2	3	6
DEC	31	1.3	3	9
YEAR	321	1.8	5	28

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 12032 MORTON DOCK BEDFORD/OJIBWAY WINDSOR

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	574	41	0	0	0	0	615
FEB	508	69	0	2	0	0	579
MAR	620	29	0	0	0	0	649
APR	608	32	3	2	0	0	645
MAY	605	87	5	1	1	0	699
JUN	641	29	1	3	0	0	674
JUL	626	51	0	0	0	0	677
AUG	581	31	1	0	0	0	613
SEP	657	20	0	0	0	0	677
OCT	606	37	0	0	0	0	643
NOV	604	13	0	0	0	0	617
DEC	719	16	0	0	0	0	735
YEAR	7349	455	10	8	1	0	7823

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
89.3	0	0.0	0.3	1.0	1.8	3.3	4.4	5.8	7.0	28	1.8















MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 14004 HYDRO SS CONCESSION 14/15 COURTRIGHT

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	19	0.9	2	4
FEB	27	1.1	5	9
MAR	30	0.6	4	29
APR	26	0.7	3	21
MAY	24	1.4	5	37
JUN	30	0.8	5	25
JUL	30	0.4	2	6
AUG	31	0.5	2	17
SEP	27	0.3	2	13
OCT	20	0.6	2	11
NOV	30	1.5	7	16
DEC	31	0.1	1	7
YEAR	325	0.7	7	37

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 14004 HYDRO SS CONCESSION 14/15 COURTRIGHT

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	457	0	0	0	0	0	457
FEB	626	30	0	0	0	0	656
MAR	720	2	1	2	1	0	726
APR	625	6	0	6	0	0	637
MAY	544	32	3	7	1	0	587
JUN	689	21	4	5	0	0	719
JUL	719	8	0	0	0	0	727
AUG	726	13	1	2	0	0	742
SEP	661	2	1	0	0	0	664
OCT	487	8	1	0	0	0	496
NOV	645	47	6	1	0	0	699
DEC	731	8	0	0	0	0	739
YEAR	7630	177	17	23	2	0	7849

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
89.6	0	0.0	0.0	0.0	0.2	1.7	2.8	4.7	6.8	37	0.7















ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 14016 OPPOSITE LAMBTON GS HWY40 COURTRIGHT

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	28	2.2	5	11
FEB	28	2.0	4	16
MAR	30	1.6	5	17
APR	28	1.8	7	25
MAY	29	2.3	7	21
JUN	30	2.4	7	22
JUL	29	1.4	4	13
AUG	31	1.2	3	17
SEP	25	1.0	3	19
OCT	29	2.1	5	21
NOV	22	1.6	4	14
DEC	27	1.4	3	5
YEAR	336	1.8	7	25

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 14016 OPPOSITE LAMBTON GS HWY40 COURTRIGHT

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	588	77	1	0	0	0	666
FEB	617	43	0	1	0	0	661
MAR	683	30	1	4	0	0	718
APR	622	47	6	4	0	0	679
MAY	615	72	7	12	0	0	706
JUN	606	83	11	2	0	0	702
JUL	659	26	2	0	0	0	687
AUG	722	14	1	2	0	0	739
SEP	575	7	2	1	0	0	585
OCT	681	13	1	4	0	0	699
NOV	574	6	1	0	0	0	581
DEC	639	1	0	0	0	0	640
YEAR	7581	419	33	30	0	0	8063

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
92.0	0	0.0	0.3	0.8	1.7	3.4	4.4	6.6	9.1	25	1.8









UNITS - 0.01 PARTS/MILLION

MONTH - JUL 77

		MONTH - JUL 77																							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	1	1	1	9	7	4	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	2
2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	1	1	3	7	3	5	6	7	11	11	15	10	6	3	9	...	...	3	7	5
4	14	14	9	4	1	1	1	1	0	0	0	0	1	2	3	4	3	2	2	2	2	2	2	1	3
5	1	0	0	0	0	0	0	0	0	0	0	0	1	5	2	2	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1	1	1	1	1	...	2	1	1	2	2	2	2	2	1	1	1	1
7	1	1	1	...	...	0	0	...	...	...	1	1	...	1	0	0	1	1	1	1	1	1	1	1	1
8	1	1	1	1	1	...	...	...	...	...	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	3	6	4	2	1	3	3	3	2	2
10	0	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	...	...	0	0	0	0	0	1	0
12	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	2	2	4	3	2	1	1	1	1
13	1	1	1	1	2	2	1	1	1	1	2	1	1	1	1	1	1	1	1	...	1	1	1	1	1
14	1	1	1	1	1	1	0	0	1	4	8	-	6	5	7	17	18	11	9	4	3	4	3	3	5
15	3	3	2	2	2	3	-	-	2	1	2	3	3	4	-	-	...	...	2	2	2	1	1	1	2
16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	2	2	2	...	1	1	1	1
17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	2	2	2	...	1	1	1	1
18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1
19	2	2	2	2	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	1
21	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	2	4	6	5	5	5	5	5	7	9	8	9	7	6	9	6	4
24	5	8	6	3	6	3	3	5	4	4	3	2	3	3	4	5	4	3	3	3	2	2	3	3	4
25	2	2	2	2	2	2	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	...	...	1	0	0	...	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	1	2	5	4	5	6	2	5	-	-	...	1	5	2	3	2	2
29	1	1	1	1	1	...	...	0	0	2	1	2	2	1	1	0	1	1	1	0	1	1	1	1	1
30	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	2	3	3	8	3	1	1	0	0	0	0	0	0	0	0	0	1
MEAN	1	2	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3	2	2	2	1	1	1	1	1.1

PERCENTAGE OF DATA UNAVAILABLE - 2.2

NOTES 1. "\*\*\*\*\*" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2.    "-" INDICATES DATA IS UNAVAILABLE

3. "\*\*\*\*\*" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLION

MONTH - AUG 77

[illegible]

PERCENTAGE OF DATA UNAVAILABLE - 0.3

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2.     \*.\* INDICATES DATA IS UNAVAILABLE

3. "\*\*\*\*\*" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY





## MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 14049 156 VICTORIA ST NORTH SARNIA

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	2.9	9	22
FEB	28	3.3	11	25
MAR	29	3.1	13	28
APR	29	3.1	8	21
MAY	30	2.0	10	25
JUN	23	1.5	6	15
JUL	31	1.6	5	18
AUG	31	2.0	10	18
SEP	30	1.7	7	24
OCT	31	1.8	8	15
NOV	28	1.6	7	21
DEC	31	2.7	10	23
YEAR	352	2.3	13	28

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

## MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 14049 156 VICTORIA ST NORTH SARNIA

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	605	97	25	8	0	0	735
FEB	538	69	23	31	0	0	661
MAR	564	72	31	18	4	0	689
APR	525	133	11	18	0	0	687
MAY	618	61	20	12	0	0	711
JUN	517	50	8	1	0	0	576
JUL	653	46	5	3	0	0	707
AUG	629	73	24	3	0	0	729
SEP	644	44	7	7	0	0	702
OCT	658	62	17	1	0	0	738
NOV	616	30	4	9	0	0	659
DEC	587	83	40	7	0	0	717
YEAR	7154	820	215	118	4	0	8311

## FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
94.9	0	0.0	0.2	0.7	1.6	5.9	9.2	12.7	15.5	28	2.3















MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 15001 WESTERN FAIR GROUNDS KING/RECTORY, LONDON

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	26	1.7	4	11
FEB	28	1.3	4	7
MAR	24	1.2	4	9
APR	27	0.8	3	5
MAY	29	1.1	3	5
JUN	30	0.6	1	3
JUL	27	0.8	2	7
AUG	31	0.8	2	7
SEP	30	0.7	2	4
OCT	30	0.9	2	15
NOV	30	0.8	2	4
DEC	31	1.1	3	6
YEAR	343	1.0	4	15

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 15001 WESTERN FAIR GROUNDS KING/RECTORY, LONDON

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	599	42	1	0	0	0	642
FEB	634	14	0	0	0	0	648
MAR	586	21	0	0	0	0	607
APR	638	1	0	0	0	0	639
MAY	683	4	0	0	0	0	687
JUN	704	0	0	0	0	0	704
JUL	625	3	0	0	0	0	628
AUG	731	6	0	0	0	0	737
SEP	697	0	0	0	0	0	697
OCT	719	4	0	1	0	0	724
NOV	704	0	0	0	0	0	704
DEC	737	2	0	0	0	0	739
YEAR	8057	97	1	1	0	0	8156

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
93.1	0	0.0	0.0	0.3	0.8	1.8	2.5	3.5	4.3	15	1.0















MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 18001 MACKENZIE RR 2 TIVERTON

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.0	0	2
FEB	24	0.0	0	4
MAR	30	0.0	0	0
APR	30	0.0	0	6
MAY	31	0.0	0	0
JUN	30	0.0	0	2
JUL	31	0.0	0	0
AUG	31	0.0	0	0
SEP	30	0.0	0	0
OCT	31	0.0	0	0
NOV	22	0.0	0	0
DEC	18	0.0	0	0
YEAR	339	0.0	0	6

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW NO 18001 MACKENZIE RR 2 TIVERTON

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	743	0	0	0	0	0	743
FEB	598	0	0	0	0	0	598
MAR	730	0	0	0	0	0	730
APR	717	1	0	0	0	0	718
MAY	742	0	0	0	0	0	742
JUN	710	0	0	0	0	0	710
JUL	743	0	0	0	0	0	743
AUG	741	0	0	0	0	0	741
SEP	718	0	0	0	0	0	718
OCT	741	0	0	0	0	0	741
NOV	536	0	0	0	0	0	536
DEC	442	0	0	0	0	0	442
YEAR	8161	1	0	0	0	0	8162

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
93.2	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0















ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 21006 POST OFFICE BRANTFORD

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	1.6	5	9
FEB	28	1.0	4	6
MAR	31	0.6	2	7
APR	30	0.5	2	4
MAY	31	0.3	2	5
JUN	24	0.1	1	3
JUL	14	0.1	0	4
AUG	14	0.1	1	2
SEP	30	0.2	2	2
OCT	14	0.2	1	3
NOV	30	0.3	2	3
DEC	31	1.0	2	5
YEAR	308	0.6	5	9

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 21006 POST OFFICE BRANTFORD

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	711	30	0	0	0	0	741
FEB	653	12	0	0	0	0	665
MAR	738	4	0	0	0	0	742
APR	719	0	0	0	0	0	719
MAY	742	1	0	0	0	0	743
JUN	598	0	0	0	0	0	598
JUL	347	0	0	0	0	0	347
AUG	346	0	0	0	0	0	346
SEP	716	0	0	0	0	0	716
OCT	364	0	0	0	0	0	364
NOV	717	0	0	0	0	0	717
DEC	737	2	0	0	0	0	739
YEAR	7388	49	0	0	0	0	7437

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
84.9	0	0.0	0.0	0.0	0.3	1.3	1.9	2.8	3.6	9	0.6















MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 22011 DEAMUDE PORT MAITLAND

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	19	1.0	4	10
FEB	24	0.9	5	9
MAR	31	0.6	2	11
APR	30	1.1	4	21
MAY	31	1.3	4	16
JUN	30	1.0	2	8
JUL	22	3.8	8	37
AUG	14	0.5	2	6
SEP	19	1.6	4	6
OCT	23	0.7	2	9
NOV	24	0.9	3	5
DEC	29	0.7	4	10
YEAR	296	1.1	8	37

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 22011 DEAMUDE PORT MAITLAND

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	467	17	0	0	0	0	484
FEB	551	36	0	0	0	0	587
MAR	726	13	1	0	0	0	740
APR	690	25	1	2	0	0	718
MAY	702	31	7	1	0	0	741
JUN	701	14	0	0	0	0	715
JUL	360	183	6	0	1	0	550
AUG	402	11	0	0	0	0	413
SEP	484	9	0	0	0	0	493
OCT	570	7	0	0	0	0	577
NOV	617	1	0	0	0	0	618
DEC	675	9	0	0	0	0	684
YEAR	6945	356	15	3	1	0	7320

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
83.6	0	0.0	0.0	0.1	0.8	2.8	4.1	6.5	7.6	37	1.1











POLLUTANT - SULPHUR DIOXIDE																UNITS - 0.01 PARTS/MILLION									
STATION - WC NO 22023 WRAY MINOR RD PT MAITLAND																MONTH - DEC 77									
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	1	1	1	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
2												- DATA INVALID -													
3												- DATA INVALID -													
4												- DATA INVALID -													
5	****	****	****	****	****	****	****	****	****	****	2	2	2	2	1	1	1	1	1	1	0	1	1	1	1
6	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	2	2	1	1	1	1	1	1
7	1	2	7	4	6	5	7	4	1	2	1	1	2	1	1	1	1	1	2	3	1	2	4	3	3
8	4	4	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	2
9	1	1	1	1	2	1	2	5	6	4	2	2	1	1	1	1	2	6	7	3	2	****	****	****	2
10	7	1	1	1	2	2	1	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
11	1	1	0	1	1	1	1	1	1	1	2	2	1	2	4	4	3	2	2	2	2	1	2	2	1
12	1	2	2	3	1	2	4	6	6	4	3	****	3	2	2	2	2	2	1	1	1	2	2	2	2
13	2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	1	2	2	1	2
14	2	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	2	1	2	2	2	1	1	1
15	0	0	0	0	0	1	1	1	2	0	2	1	0	0	****	****	****	****	****	****	****	****	****	****	****
16												- DATA INVALID -													
17												- DATA UNAVAILABLE -													
18												- DATA UNAVAILABLE -													
19												- DATA UNAVAILABLE -													
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21												- DATA UNAVAILABLE -													
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25												- DATA UNAVAILABLE -													
26												- DATA UNAVAILABLE -													
27												- DATA UNAVAILABLE -													
28												- DATA UNAVAILABLE -													
29												- DATA UNAVAILABLE -													
30												- DATA UNAVAILABLE -													
31												- DATA UNAVAILABLE -													
MEAN	2	1	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	2	2	2	1	2	2	1	1.6

PERCENTAGE OF DATA VALID - 35.2 PERCENTAGE OF DATA INVALID - 14.9 PERCENTAGE OF DATA UNAVAILABLE - 49.9

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*-\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LE-S THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 22023 WRAY MINOR RD PT MAITLAND

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	29	2.7	7	12
FEB	25	2.0	6	11
MAR	26	1.0	3	6
APR	0	0.5	***	1
MAY	DATA UNAVAILABLE			
JUN	15	1.2	2	4
JUL	15	0.4	1	3
AUG	22	0.3	1	2
SEP	1	1.3	1	3
OCT	14	1.6	3	6
NOV	30	1.2	4	11
DEC	10	1.6	3	7
YEAR	187	1.4	7	12

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 22023 WRAY MINOR RD PT MAITLAND

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	559	123	4	0	0	0	686
FEB	552	65	2	0	0	0	619
MAR	638	7	0	0	0	0	645
APR	25	0	0	0	0	0	25
MAY	DATA UNAVAILABLE						
JUN	385	0	0	0	0	0	385
JUL	367	0	0	0	0	0	367
AUG	530	0	0	0	0	0	530
SEP	37	0	0	0	0	0	37
OCT	354	3	0	0	0	0	357
NOV	662	52	1	0	0	0	715
DEC	251	11	0	0	0	0	262
YEAR	4360	261	7	0	0	0	4628

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
57.7	0	0.0	0.0	0.5	1.2	2.9	4.3	5.9	7.1	12	1.4















MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 22071 EXPERIMENTAL FARM SIMCOE

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	22	1.8	7	11
FEB	24	1.3	5	8
MAR	29	1.2	4	5
APR	29	1.1	4	7
MAY	27	1.5	9	15
JUN	18	1.1	2	4
JUL	19	0.8	2	4
AUG	31	1.2	3	5
SEP	28	0.9	2	7
OCT	31	0.6	2	3
NOV	23	0.7	2	4
DEC	27	0.9	2	5
YEAR	308	1.1	9	15

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 22071 EXPERIMENTAL FARM SIMCOE

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	512	46	1	0	0	0	559
FEB	560	33	0	0	0	0	593
MAR	704	7	0	0	0	0	711
APR	686	13	0	0	0	0	699
MAY	615	25	5	2	0	0	647
JUN	478	0	0	0	0	0	478
JUL	485	0	0	0	0	0	485
AUG	740	1	0	0	0	0	741
SEP	674	1	0	0	0	0	675
OCT	737	0	0	0	0	0	737
NOV	568	0	0	0	0	0	568
DEC	647	2	0	0	0	0	649
YEAR	7406	128	6	2	0	0	7542

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	CONCENTRATIONS FREQUENCY DISTRIBUTION, PERCENT									MAX	ARITH MEAN
	MIN	10	30	50	70	90	95	98	99		
86.1	0	0.0	0.0	0.4	0.9	2.0	2.9	3.9	4.9	15	1.1















ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 26029 TRAILER EDNA/FREDERICK ST KITCHENER

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	20	1.2	3	6
FEB	28	1.4	4	6
MAR	31	1.0	3	5
APR	30	0.6	2	4
MAY	31	0.4	2	5
JUN	30	0.3	1	2
JUL	31	0.3	1	3
AUG	8	0.3	1	2
SEP	25	0.4	1	5
OCT	31	0.9	3	8
NOV	22	0.6	1	3
DEC	30	0.6	2	6
YEAR	317	0.7	4	8

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 26029 TRAILER EDNA/FREDERICK ST KITCHENER

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	496	7	0	0	0	0	503
FEB	649	19	0	0	0	0	668
MAR	739	1	0	0	0	0	740
APR	708	0	0	0	0	0	708
MAY	736	2	0	0	0	0	738
JUN	715	0	0	0	0	0	715
JUL	738	0	0	0	0	0	738
AUG	217	0	0	0	0	0	217
SEP	621	1	0	0	0	0	622
OCT	734	5	0	0	0	0	739
NOV	537	0	0	0	0	0	537
DEC	726	2	0	0	0	0	728
YEAR	7616	37	0	0	0	0	7653

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
87.4	0	0.0	0.0	0.0	0.5	1.4	1.9	2.8	3.4	8	0.7















ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 27013 PS VICTORIA/LEADER NIAGRA FLS

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	1.5	5	10
FEB	28	1.1	3	7
MAR	29	1.2	3	8
APR	30	0.7	2	5
MAY	31	0.6	2	6
JUN	30	0.4	2	5
JUL	31	0.3	1	3
AUG	27	0.6	2	3
SEP	30	0.4	1	3
OCT	29	1.0	2	6
NOV	24	0.9	2	7
DEC	31	1.4	2	6
YEAR	351	0.8	5	10

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 27013 PS VICTORIA/LEADER NIAGRA FLS

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	705	30	0	0	0	0	735
FEB	642	15	0	0	0	0	657
MAR	709	8	0	0	0	0	717
APR	703	1	0	0	0	0	704
MAY	733	2	0	0	0	0	735
JUN	698	1	0	0	0	0	699
JUL	724	0	0	0	0	0	724
AUG	685	0	0	0	0	0	685
SEP	704	0	0	0	0	0	704
OCT	703	2	0	0	0	0	705
NOV	583	2	0	0	0	0	585
DEC	732	5	0	0	0	0	737
YEAR	8321	66	0	0	0	0	8387

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
95.7	0	0.0	0.0	0.2	0.7	1.6	2.2	3.0	3.8	10	0.8















ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NO 27027 PS 309 BEATRICE ST WELLAND

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	3.8	8	16
FEB	28	2.7	5	10
MAR	31	2.2	4	14
APR	30	2.0	4	8
MAY	31	1.9	4	10
JUN	30	1.6	4	8
JUL	31	1.3	3	6
AUG	31	0.9	2	7
SEP	30	1.0	3	7
OCT	31	1.5	3	10
NOV	30	1.3	4	9
DEC	31	1.9	7	19
YEAR	365	1.8	8	19

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 27027 PS 309 BEATRICE ST WELLAND

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	506	222	4	1	0	0	733
FEB	552	104	0	0	0	0	656
MAR	684	46	3	0	0	0	733
APR	659	43	0	0	0	0	702
MAY	674	55	0	0	0	0	729
JUN	658	37	0	0	0	0	695
JUL	717	6	0	0	0	0	723
AUG	727	7	0	0	0	0	734
SEP	697	7	0	0	0	0	704
OCT	713	26	0	0	0	0	739
NOV	679	26	0	0	0	0	705
DEC	682	48	4	4	0	0	738
YEAR	7948	627	11	5	0	0	8591

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
98.1	0	0.0	0.3	0.9	1.8	3.6	4.8	6.3	7.4	19	1.8











## UNITS - 0.01 PARTS/MILLION

NOTES 1. "\*\*\*\*\*" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
2. "-" INDICATES DATA IS UNAVAILABLE  
3. "\*\*\*\*\*" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## UNITS - 0.01 PARTS/MILLION

NOTES 1. "\*\*\*\*\*" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
2. ".\*" INDICATES DATA IS UNAVAILABLE  
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ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 27037 NORTH/GENEVA STREET, ST. CATHARINES

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	25	2.2	5	9
FEB	14	1.5	4	7
MAR	26	1.0	4	11
APR	30	0.5	2	7
MAY	31	0.4	1	8
JUN	30	0.4	1	6
JUL	29	0.4	1	11
AUG	9	0.3	1	2
SEP	15	0.1	1	1
OCT	29	0.4	2	3
NOV	26	0.6	2	6
DEC	31	0.9	2	6
YEAR	295	0.7	5	11

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 27037 NORTH/GENEVA STREET, ST. CATHARINES

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	551	61	0	0	0	0	612
FEB	314	11	0	0	0	0	325
MAR	629	15	1	0	0	0	645
APR	711	1	0	0	0	0	712
MAY	738	2	0	0	0	0	740
JUN	710	1	0	0	0	0	711
JUL	682	3	1	0	0	0	686
AUG	243	0	0	0	0	0	243
SEP	364	0	0	0	0	0	364
OCT	706	0	0	0	0	0	706
NOV	638	2	0	0	0	0	640
DEC	735	3	0	0	0	0	738
YEAR	7021	99	2	0	0	0	7122

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
81.3	0	0.0	0.0	0.0	0.5	1.5	2.3	3.6	4.6	11	0.7















ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 27038 ROSEHILL RD/MACDONALD DR. FORT ERIE

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	25	3.0	8	12
FEB	20	2.0	7	14
MAR	22	1.0	4	7
APR	30	1.6	3	8
MAY	31	1.7	3	10
JUN	29	1.5	4	7
JUL	24	1.8	4	6
AUG	16	2.4	5	9
SEP	2	1.8	2	4
OCT	26	0.6	3	11
NOV	22	0.5	2	4
DEC	29	0.9	2	5
YEAR	276	1.5	8	14

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 27038 ROSEHILL RD/MACDONALD DR. FORT ERIE

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	482	133	6	0	0	0	621
FEB	445	67	2	0	0	0	514
MAR	538	11	0	0	0	0	549
APR	704	13	0	0	0	0	717
MAY	723	14	0	0	0	0	737
JUN	671	29	0	0	0	0	700
JUL	598	29	0	0	0	0	627
AUG	357	50	0	0	0	0	407
SEP	58	0	0	0	0	0	58
OCT	629	13	1	0	0	0	643
NOV	546	0	0	0	0	0	546
DEC	692	5	0	0	0	0	697
YEAR	6443	364	9	0	0	0	6816

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
77.8	0	0.0	0.0	0.7	1.5	3.0	4.2	5.8	6.9	14	1.5















## MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 29008 NORTH PARK HAMILTON

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	3.1	7	12
FEB	28	2.4	8	15
MAR	31	1.7	6	12
APR	28	1.8	5	9
MAY	31	1.4	4	14
JUN	30	1.5	4	11
JUL	30	0.9	3	6
AUG	30	1.0	3	8
SEP	28	1.1	3	9
OCT	29	1.7	6	12
NOV	26	2.0	5	10
DEC	31	2.1	6	9
YEAR	353	1.7	8	15

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

## MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 29008 NORTH PARK HAMILTON

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	585	143	3	0	0	0	731
FEB	543	107	2	1	0	0	653
MAR	646	80	3	0	0	0	729
APR	612	65	0	0	0	0	677
MAY	689	34	1	0	0	0	724
JUN	676	23	1	0	0	0	700
JUL	685	10	0	0	0	0	695
AUG	695	12	0	0	0	0	707
SEP	648	21	0	0	0	0	669
OCT	602	70	2	0	0	0	674
NOV	527	97	0	0	0	0	624
DEC	646	92	0	0	0	0	738
YEAR	7554	754	12	1	0	0	8321

## FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
95.0	0	0.0	0.1	0.7	1.7	3.9	4.9	6.3	7.4	15	1.7





ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - NO 29025		BARTON/WENTWORTH HAMILTON												MONTH - MAY 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	2	3	4	4	3	3	2	3	4	4	4	4	4	4	3	3	3	4	3	3	4	4	3
2	4	4	3	2	2	1	1	2	1	1	1	-	-	1	1	1	1	1	1	1	2	1	1	1	2
3	1	1	1	2	3	8	9	6	6	7	-	-	6	6	4	4	5	3	5	7	3	4	5	3	5
4	5	5	3	3	4	5	7	9	10	8	7	8	5	6	9	7	6	9	-	13	8	7	9	10	7
5	3	4	3	2	2	2	6	3	6	12	7	7	4	3	5	6	7	4	2	2	1	2	1	1	4
6	1	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	2	2	2	2	1	1	1	2
7	1	1	1	1	1	1	1	1	1	1	2	3	6	7	3	3	3	2	2	1	1	1	1	1	2
8	1	1	1	0	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	3	2	2	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1	2	6	7	4	2	1	2	6	2	1	2	2	2	1	1	1	2
12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1
13	1	1	1	2	2	2	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1	0	0	0	1
14	0	0	0	1	1	1	2	3	3	3	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1
15	0	0	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	2	3	3	2	4	5	4	2	1	1	0	0	0	1	1	1	1	1	1
17	2	2	2	2	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	3	3	2	2	2	2
18	2	2	2	2	2	2	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	2	2	2	2
19	2	2	1	1	1	1	1	1	1	2	5	4	5	6	6	3	3	3	3	3	3	2	2	2	3
20	2	1	1	1	1	1	1	2	2	5	4	3	5	8	10	7	4	5	3	3	2	6	11	7	4
21	2	2	1	1	1	1	1	1	3	5	12	9	11	8	12	6	9	14	12	7	4	3	2	3	5
22	2	4	3	3	2	2	2	4	6	5	5	4	4	4	8	9	13	10	9	8	4	2	2	2	5
23	2	2	2	2	2	2	1	2	2	1	3	3	3	3	3	3	3	3	8	4	4	3	3	3	3
24	3	3	3	3	2	2	2	2	2	4	4	4	4	3	2	2	2	2	1	1	1	1	1	1	2
25	1	1	1	1	1	1	1	1	2	2	2	4	7	-	6	5	3	2	2	2	2	1	1	1	2
26	1	1	1	2	4	5	5	5	6	8	4	3	3	7	6	9	6	4	2	2	1	1	1	1	4
27	1	1	1	2	1	1	2	2	2	2	2	2	3	3	3	3	3	3	3	3	2	2	1	1	2
28	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	2	1	1	2	2	3	2
29	3	2	3	3	3	4	3	3	3	4	5	5	4	4	4	6	5	5	5	4	6	4	2	4	4
30	2	1	1	1	1	8	10	5	4	3	4	8	6	7	7	5	7	6	6	4	4	3	4	2	5
31	1	1	1	1	1	1	3	8	15	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
MEAN	2	2	2	2	2	2	2	3	3	3	4	4	5	4	4	4	4	4	3	3	2	2	2	2	2.9

PERCENTAGE OF DATA VALID - 97.6

PERCENTAGE OF DATA INVALID - 1.6

PERCENTAGE OF DATA UNAVAILABLE - 0.8

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - WC NO 29025		BARTON/WENTWORTH HAMILTON												MONTH - JUN 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	1	1	1	1	1	1	1	2	2	2	2	0	2	1	2	2	2	2	1	1	1	1	1
2	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
3	0	0	0	0	0	0	1	1	1	2	2	2	2	2	2	1	2	2	2	2	1	1	1	1	1
4	1	1	0	1	1	1	1	1	2	2	2	3	3	3	3	3	3	3	3	3	2	2	2	2	3
5	2	2	2	2	3	3	3	3	2	3	7	6	4	4	4	4	3	6	2	2	1	1	2	7	3
6	5	3	3	3	3	3	2	5	4	1	1	1	1	0	1	0	1	0	0	0	0	0	0	0	2
7	0	1	1	2	1	1	1	1	1	1	1	2	2	0	1	0	2	0	0	0	0	1	1	1	1
8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	2	2	3	2	2	1	2	4	5	4	6	4	3	5	9	6	4	2	2	1	2	1	1	1	3
10	2	2	2	1	2	1	1	1	1	3	4	3	3	1	5	2	4	2	1	1	0	0	0	0	2
11	0	0	1	0	0	0	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1
12	2	2	1	1	2	2	2	2	2	2	2	1	0	3	9	8	2	0	1	1	0	1	1	1	2
13	1	1	1	1	1	1	2	4	4	4	5	5	8	15	10	11	11	8	10	4	2	2	1	1	5
14	1	1	1	1	10	10	-	-	-	10	12	14	13	11	10	9	14	6	3	3	2	3	2	2	7
15	-	1	3	2	1	1	1	4	4	4	-	1	1	1	3	3	5	4	3	2	2	1	2	8	3
16	3	2	3	2	1	1	2	3	8	7	7	6	7	10	7	7	-	-	7	5	4	2	1	1	4
17	3	4	4	5	5	4	2	2	2	3	3	3	3	3	3	3	4	3	3	2	2	1	1	1	3
18	2	2	2	2	3	2	2	2	2	2	2	2	2	2	3	2	3	3	3	2	2	2	2	2	2
19	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	2
20	1	1	1	1	1	1	1	1	1	1	1	2	3	2	2	2	2	2	2	2	2	2	2	1	2
21	1	1	1	2	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	2
22	1	1	1	2	2	1	1	1	2	6	4	5	6	6	4	3	4	5	4	4	2	2	1	2	3
23	2	1	1	2	2	3	4	8	7	11	7	5	4	4	4	5	4	5	7	6	7	3	2	1	4
24	2	2	1	1	2	1	1	5	6	8	11	11	1	1	1	1	1	1	1	1	1	1	1	1	4
25	2	2	2	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	2
28	2	2	2	1	1	1	2	-	2	0	0	0	1	1	3	1	1	1	1	1	1	1	1	1	1
29	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1
30	0	0	0	0	0	0	0	0	0	1	1	1	1	2	3	2	2	2	2	2	2	2	1	1	1
MEAN	1	1	1	2	2	2	1	2	3	3	3	3	3	3	4	3	3	3	3	2	2	1	1	2	2.3

PERCENTAGE OF DATA VALID - 96.9

PERCENTAGE OF DATA INVALID - 1.7

PERCENTAGE OF DATA UNAVAILABLE - 1.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - WC NO 29025		BARTON/WENTWORTH HAMILTON												MONTH - JUL 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
7	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
8	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	7	10	13	13	14	15	12	8	9	6	10	6	5	7	7	6	6	5	5	4	5	2	2	3	8
12	2	2	2	2	2	2	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	1	2	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15	3	3	3	3	3	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	2	2	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2
18	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2
21	2	2	2	2	2	2	3	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31	1	1	0	0	0	0	0	1	1	3	5	3	3	3	2	2	2	2	2	2	2	2	2	2	2
MEAN	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2.1

PERCENTAGE OF DATA VALID - 96.9

PERCENTAGE OF DATA INVALID - 2.0

PERCENTAGE OF DATA UNAVAILABLE - 1.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH																										
POLLUTANT - SULPHUR DIOXIDE													UNITS - 0.01 PARTS/MILLION													
STATION - WC NO 29025 BARTON/WENTWORTH HAMILTON													MONTH - AUG 77													
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	
2	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1	
3	2	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	
4	1	1	2	2	2	1	1	1	....	....	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	1	
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3	2	2	2	2	2	1	1	3	
7	1	1	2	2	4	3	2	3	4	2	2	3	5	3	3	5	8	5	2	1	1	1	1	1	1	
8	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	
9	1	1	1	1	1	0	0	0	0	2	3	2	4	5	5	3	3	3	3	2	1	2	3	2	2	
10	2	3	3	1	1	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	
11	1	1	1	1	1	1	0	0	0	1	1	....	1	1	1	1	1	1	1	1	1	1	0	0	1	
12	0	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13	1	1	1	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	2	1	2	1	
14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1		
15	0	0	0	0	0	1	1	1	1	1	1	1	1	....	1	1	1	1	1	1	2	1	1	1	1	
16	1	1	2	2	2	1	2	3	4	2	2	3	-	2	....	2	2	1	1	1	0	0	0	1	2	
17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	
18	0	0	1	1	1	0	0	0	0	1	....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19	0	1	1	1	1	1	1	2	2	....	....	2	2	2	2	2	2	2	2	2	1	1	1	1	1	
20	1	1	1	2	1	1	1	1	1	2	1	1	2	2	2	2	2	1	1	1	1	1	1	1	1	
21	1	1	1	1	1	1	1	1	2	2	1	2	2	2	3	3	3	2	2	1	2	2	2	2	2	
22	2	2	2	2	2	2	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	2	2	1	
23	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	1	1	2	
24	2	2	4	3	2	2	2	1	1	....	3	2	2	2	2	2	2	2	2	2	1	1	1	1	2	
25	1	1	2	1	1	1	1	1	2	5	6	4	3	3	3	3	2	2	2	1	2	3	2	2	2	
26	1	1	1	1	1	1	1	4	6	10	....	6	7	6	5	7	6	5	4	3	2	2	1	1	4	
27	1	0	1	0	0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	2	2	2	1	
28	2	2	2	2	2	1	2	2	2	2	2	3	2	2	2	2	1	1	1	1	1	0	0	2	2	
29	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30	1	1	1	1	1	1	1	1	....	1	1	1	3	6	6	6	4	6	3	2	1	1	1	1	2	
31	1	1	1	1	1	1	1	1	1	2	3	7	8	6	8	7	6	6	6	3	2	2	2	2	3	
MEAN	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1.5	

PERCENTAGE OF DATA VALID - 98.4

PERCENTAGE OF DATA INVALID - 1.5

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE



POLLUTANT - SULPHUR DIOXIDE															UNITS - 0.01 PARTS/MILLION										
STATION - WC NO 29025					BARTON/WENTWORTH HAMILTON										MONTH - NOV 77										
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	6	5	7	3	1	1	2
2	1	1	0	-	***	0	1	2	2	3	3	2	2	1	1	1	4	9	8	6	3	2	2	3	3
3	3	2	2	2	2	2	3	2	3	5	4	4	7	7	7	4	3	3	2	2	1	2	2	2	3
4	3	3	3	1	1	1	2	2	3	3	1	1	1	2	1	1	1	1	0	1	0	0	3	1	2
5	9	7	5	6	5	4	4	3	3	4	2	2	2	3	2	2	3	4	3	4	4	2	2	2	4
6	3	5	6	7	7	7	6	5	5	5	6	7	7	6	7	5	9	12	6	6	4	3	3	3	6
7	4	3	3	3	4	4	3	4	4	4	3	3	4	4	3	5	5	6	4	3	4	3	2	2	4
8	1	1	1	1	1	1	1	3	5	5	4	***	6	6	2	4	***	6	7	5	5	5	2	2	3
9	5	3	-	-	-	1	2	4	4	5	4	7	8	6	5	4	9	8	-	7	6	9	13	9	6
10	7	5	5	4	6	4	4	4	***	***	***	***	***	0	1	1	1	1	1	1	1	0	0	0	2
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
14	1	1	2	2	2	2	2	1	2	2	1	1	1	3	2	2	1	2	2	2	1	2	1	1	2
15	2	3	3	3	2	2	3	***	3	3	6	7	4	3	2	1	1	1	1	1	1	1	1	1	2
16	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	0	0	0	1	1	1	1	0	0	***	4	1	1	1	1	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	***	1	1	-	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	1	1	2	3	4	3	2	1	1	1	1	1	2	2	3	4	2	2	2	1	2	3	2	1	2
21	2	2	3	2	1	1	1	1	1	1	1	1	-	1	1	0	0	0	0	0	0	0	0	0	1
22	0	0	0	0	0	0	0	1	0	***	2	0	0	***	1	1	1	0	0	0	0	1	2	3	1
23	1	1	2	2	2	2	1	1	1	1	1	2	2	2	1	1	1	1	1	1	2	2	2	3	2
24	2	2	2	2	1	1	1	1	1	***	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1	2	1	***	1	3	3	2	1	1	1	1	2	2	1	1	1	1	1
26	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	2	2	1	1
28	2	2	2	3	3	3	3	2	2	3	2	3	3	3	3	3	2	3	3	2	2	2	3	2	3
29	2	3	3	3	4	5	5	-	***	7	6	5	4	3	3	3	2	3	3	3	5	5	5	3	4
30	3	-	5	4	4	5	4	4	-	-	4	4	4	3	3	3	4	3	3	3	3	4	3	3	4
MEAN	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.0

PERCENTAGE OF DATA VALID - 96.3

PERCENTAGE OF DATA INVALID - 2.2

PERCENTAGE OF DATA UNAVAILABLE - 1.5

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE															UNITS - 0.01 PARTS/MILLION											
STATION - WC NO 29025					BARTON/WENTWORTH HAMILTON										MONTH - DEC 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	5	3	5	3	4	3	5	3	3	2	2	3	2	-	1	1	1	1	1	1	1	1	1	1	1	
2	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	
3	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	
4	0	1	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	
5	1	2	2	1	1	1	1	2	2	2	2	1	1	1	1	1	2	1	1	1	2	2	0	0	1	
6	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1	0	0	0	0	0	0	1	0	
7	1	1	1	2	3	3	2	1	1	1	1	1	1	-	1	1	2	2	1	1	1	1	1	1	1	
8	1	1	1	1	2	2	4	6	5	4	6	4	3	3	2	2	1	2	2	2	2	2	2	2	3	
9	2	3	3	2	2	2	2	2	2	3	2	3	2	2	2	1	1	1	2	2	2	2	2	2	2	
10	2	2	2	2	2	3	2	2	2	2	2	1	1	1	1	1	1	2	2	2	2	2	2	4	2	
11	4	3	3	2	2	2	4	3	4	4	3	3	3	2	1	1	1	1	3	3	3	3	3	4	3	
12	5	5	4	2	2	3	5	5	6	9	6	5	3	3	3	3	3	3	2	2	2	2	2	2	4	
13	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
14	2	2	2	2	1	2	1	2	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	
15	1	1	1	1	1	1	1	2	2	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	
16	2	1	1	1	1	1	1	2	5	***	3	4	5	4	4	5	6	7	6	6	6	6	5	6	4	
17	5	5	5	5	5	4	3	2	2	2	3	4	3	4	5	4	4	5	4	4	4	3	3	4	4	
18	4	3	4	5	6	4	4	4	4	4	3	2	3	3	3	-	-	3	3	3	3	2	1	1	3	
19	1	1	1	2	3	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	3	2	1	2	1	
20	1	2	2	3	3	2	2	2	2	3	4	3	1	3	2	4	3	3	2	1	1	1	1	1	2	
21	1	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	
22	1	2	2	2	2	2	3	3	2	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	
23	2	2	2	3	4	4	4	4	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	3	
24	2	2	2	2	2	2	2	2	2	2	3	2	4	5	5	3	3	3	4	5	6	4	2	2	3	
25	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	2	2	2	1	
26	2	1	2	2	1	2	2	2	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	
27	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	2	2	1	1	1	2	2	2	
28	3	3	2	2	2	3	3	2	2	2	2	1	1	1	1	1	1	2	2	2	2	2	2	3	2	
29	3	3	2	3	2	2	2	2	2	***	2	2	1	1	1	1	1	2	2	2	2	2	2	2	2	
30	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4	5	5	4	3	2	2	2	3	
31	2	2	1	1	1	1	1	1	0	0	0	1	0	1	1	1	1	1	2	1	3	5	2	-	1	
MEAN	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.0	

POLLUTANT - SULPHUR DIOXIDE

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 29025 BARTON/WENTWORTH HAMILTON

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	2.6	7	11
FEB	28	2.8	6	11
MAR	31	2.8	7	17
APR	30	2.9	7	16
MAY	31	2.9	7	15
JUN	30	2.3	7	15
JUL	31	2.1	8	15
AUG	31	1.5	4	10
SEP	28	1.6	4	10
OCT	31	1.8	4	14
NOV	30	2.0	6	13
DEC	31	2.0	4	9
YEAR	363	2.3	8	17

ONTARIO MINISTRY OF THE ENVIRONMENT • AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 29025 BARTON/WENTWORTH HAMILTON

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	640	89	2	0	0	0	731
FEB	544	110	1	0	0	0	655
MAR	633	84	13	3	0	0	733
APR	561	115	17	3	0	0	696
MAY	597	116	11	2	0	0	726
JUN	626	61	10	1	0	0	698
JUL	637	77	6	1	0	0	721
AUG	702	30	0	0	0	0	732
SEP	618	50	0	0	0	0	668
OCT	670	57	8	0	0	0	735
NOV	617	73	3	0	0	0	693
DEC	695	41	0	0	0	0	736
YEAR	7540	903	71	10	0	0	8524

### FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	CONCENTRATIONS									MAX	ARITH MEAN
	MIN	10	30	FREQUENCY 50	DISTRIBUTION. 70	PERCENT 90	95	98	99		
97.3	0	0.0	0.6	1.3	2.0	4.4	6.0	8.3	9.9	17	2.3













ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE												UNITS - 0.01 PARTS/MILLION												
STATION - WC NO 29026												BRAMPTON/WOODWARD HAMILTON												
MONTH - DEC 77																								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
3	0	0	0	0	1	0	0	0	0	0	0	3	1	2	2	1	0	0	0	0	0	0	0	0
4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	1	0	0	0	0	0
7	1	7	2	2	3	3	2	1	1	1	4	4	2	2	3	3	4	2	1	0	0	0	0	0
8	0	0	0	0	1	1	1	1	2	3	1	1	2	2	2	2	2	2	2	2	2	2	2	2
9	2	3	3	4	2	2	3	3	3	3	2	3	2	2	2	2	2	2	2	2	2	2	2	2
10	3	5	3	3	3	4	4	2	4	6	3	1	1	2	2	1	1	1	1	2	2	2	2	3
11	2	1	1	1	2	1	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
12																								
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24	2	2	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	2	2	2
25	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	2	3	2	2	1	2	2	2	2	1	1	1	1	1	0	***	0	0	1	1	1	1	1	1
29	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30	1	1	1	1	1	1	1	2	2	2	2	2	3	2	2	2	3	4	3	2	2	1	1	2
31	0	0	0	***	***	***	***	***	***	***	***	***	***	***	***	1	1	0	0	0	0	0	0	0
MEAN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9

PERCENTAGE OF DATA VALID - 55.2      PERCENTAGE OF DATA INVALID - 10.1      PERCENTAGE OF DATA UNAVAILABLE - 34.7

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
 2. \*\*\* INDICATES DATA IS UNAVAILABLE  
 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 29026 BRAMPTON/WOODWARD HAMILTON

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	29	2.5	7	18
FEB	5	2.2	3	6
MAR		DATA UNAVAILABLE		
APR	16	1.0	2	4
MAY	31	1.2	3	17
JUN	25	0.6	2	4
JUL	22	0.5	2	6
AUG	21	1.6	8	10
SEP	24	1.0	3	8
OCT	25	0.7	2	5
NOV	30	0.1	2	4
DEC	16	0.9	3	7
YEAR	244	1.1	8	18

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

## MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 29026 BRAMPTON/WOODWARD HAMILTON

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	600	95	2	1	0	0	698
FEB	129	13	0	0	0	0	142
MAR		DATA UNAVAILABLE					
APR	384	0	0	0	0	0	384
MAY	725	12	2	1	0	0	740
JUN	621	0	0	0	0	0	621
JUL	545	3	0	0	0	0	548
AUG	499	42	0	0	0	0	541
SEP	578	16	0	0	0	0	594
OCT	631	1	0	0	0	0	632
NOV	719	0	0	0	0	0	719
DEC	408	3	0	0	0	0	411
YEAR	5839	185	4	2	0	0	6030

## FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
75.2	0	0.0	0.0	0.2	0.9	2.0	3.1	4.8	6.4	18	1.1















ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 29080 CITY MALL HAMILTON

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	1.7	6	9
FEB	22	2.0	5	8
MAR	31	1.7	5	13
APR	28	1.8	7	13
MAY	28	1.8	5	13
JUN	30	2.0	5	15
JUL	18	1.9	11	16
AUG	14	1.9	6	16
SEP	26	1.1	3	5
OCT	22	1.3	3	10
NOV	11	1.3	3	6
DEC	25	1.4	4	12
YEAR	286	1.7	11	16

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 29080 CITY MALL HAMILTON

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	694	44	0	0	0	0	738
FEB	501	54	0	0	0	0	555
MAR	680	56	5	0	0	0	741
APR	633	56	5	0	0	0	694
MAY	629	43	5	0	0	0	677
JUN	673	40	6	1	0	0	720
JUL	408	45	8	3	0	0	464
AUG	330	18	2	1	0	0	351
SEP	610	8	0	0	0	0	618
OCT	557	17	0	0	0	0	574
NOV	272	4	0	0	0	0	276
DEC	638	11	2	0	0	0	651
YEAR	6625	396	33	5	0	0	7059

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
80.6	0	0.0	0.2	0.8	1.6	3.1	4.4	6.1	7.8	16	1.7















MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 31001 67 COLLEGE ST FIFTH FLOOR TORONTO

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	3.0	8	20
FEB	28	2.3	7	17
MAR	31	1.5	4	9
APR	30	1.7	4	17
MAY	31	1.5	3	11
JUN	30	0.7	2	5
JUL	31	0.6	2	4
AUG	31	0.6	2	9
SEP	30	0.2	2	5
OCT	31	1.0	4	12
NOV	30	1.1	3	7
DEC	31	1.9	5	15
YEAR	365	1.4	8	20

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 31001 67 COLLEGE ST FIFTH FLOOR TORONTO

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	590	119	13	6	0	0	728
FEB	565	66	6	3	0	0	640
MAR	675	42	0	0	0	0	717
APR	643	51	0	1	0	0	695
MAY	685	34	1	0	0	0	720
JUN	692	1	0	0	0	0	693
JUL	721	0	0	0	0	0	721
AUG	726	2	0	0	0	0	728
SEP	691	2	0	0	0	0	693
OCT	709	12	1	0	0	0	722
NOV	666	17	0	0	0	0	683
DEC	657	61	0	1	0	0	719
YEAR	8020	407	21	11	0	0	8459

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
96.6	0	0.0	0.0	0.5	1.1	2.9	4.1	5.7	7.1	20	1.4





POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 31105

HYDRO SS SHERBOURNE/WILTON ST. TORONTO

MONTH - DEC 77

HOUR DAY	1	2	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	1	1	1	1	1	1	2	1	2	2	***	4	3	1	2	2	4	6	4	2	1	2
2	1	1	1	2	1	1	3	4	6	4	6	6	5	7	6	1	1	2	1	0	2	1	1	3
3	2	2	1	1	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	2	1
4	2	3	2	2	3	3	2	1	1	1	0	0	1	1	1	0	1	1	1	1	1	1	3	2
5	2	2	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	2
6	1	1	1	1	1	1	1	2	1	1	1	1	1	1	2	2	2	2	2	2	2	2	1	2
7	2	2	2	1	1	1	2	2	2	2	2	2	***	1	1	2	2	2	2	2	2	1	2	1
8	2	3	4	4	4	5	5	6	6	5	3	1	1	1	1	2	2	2	2	3	3	2	2	2
9	2	2	2	1	1	5	4	3	3	4	5	***	4	5	4	2	2	2	2	1	2	2	2	3
10	1	1	1	2	1	2	3	3	2	2	2	2	1	1	2	2	2	3	3	2	1	1	1	3
11	2	2	4	5	5	5	4	4	4	3	2	2	2	1	1	2	3	3	3	5	6	7	7	4
12	7	6	4	5	6	4	4	2	4	3	5	***	***	2	2	3	3	3	2	2	3	2	3	4
13	7	4	2	1	2	2	2	2	2	3	2	2	3	3	3	3	2	1	1	1	1	1	2	2
14	2	3	2	2	1	2	4	5	4	4	4	5	***	3	3	3	3	3	2	3	2	3	2	3
15	2	2	2	1	2	2	2	2	2	4	5	5	5	4	4	2	2	1	2	3	3	3	3	4
16	2	6	6	3	2	4	4	7	***	8	5	3	2	3	4	4	3	3	3	3	3	3	3	4
17	2	2	2	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	1	1	2	1	1	1	1	1	2	2	1	1	1	1	1	1	3	3	3	1	1	1	1	1
21	1	2	2	2	2	2	2	2	2	2	2	2	1	2	1	1	1	2	2	2	1	2	2	2
22	2	3	7	7	6	3	2	2	2	5	2	***	3	3	2	2	3	2	4	2	1	1	2	3
23	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	1	4	5	1	1	2	1	1	2
24	2	3	2	2	2	2	3	3	2	2	2	3	3	3	3	2	3	2	1	1	2	1	1	2
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1
28	2	2	2	2	2	1	2	3	***	3	2	3	4	1	4	4	3	4	6	4	5	4	5	3
29	2	2	2	1	2	2	2	2	2	1	1	2	1	3	2	2	3	2	2	2	2	2	2	2
30	2	3	3	3	3	2	2	3	2	3	4	3	4	4	3	3	3	3	2	2	2	3	5	3
31	4	4	3	3	3	3	2	3	3	3	2	2	2	1	1	1	2	1	1	2	1	2	2	2
MEAN	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.1

PERCENTAGE OF DATA VALID - 98.4

PERCENTAGE OF DATA INVALID - 1.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY



MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 31105 HYDRO SS SHERBOURNE/WILTON ST. TORONTO

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN		DATA UNAVAILABLE		
FEB		DATA UNAVAILABLE		
MAR		DATA UNAVAILABLE		
APR		DATA UNAVAILABLE		
MAY		DATA UNAVAILABLE		
JUN		DATA UNAVAILABLE		
JUL		DATA UNAVAILABLE		
AUG	19	0.6	2	11
SEP	30	0.4	2	4
OCT	31	1.2	3	7
NOV	30	1.4	3	7
DEC	31	2.1	4	8
YEAR	141	1.2	4	11

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 31105 HYDRO SS SHERBOURNE/WILTON ST. TORONTO

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	DATA UNAVAILABLE						
FEB	DATA UNAVAILABLE						
MAR	DATA UNAVAILABLE						
APR	DATA UNAVAILABLE						
MAY	DATA UNAVAILABLE						
JUN	DATA UNAVAILABLE						
JUL	DATA UNAVAILABLE						
AUG	456	4	1	0	0	0	461
SEP	709	0	0	0	0	0	705
OCT	725	6	0	0	0	0	731
NOV	693	15	0	0	0	0	708
DEC	684	48	0	0	0	0	732
YEAR	3267	73	1	0	0	0	3341

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
91.0	0	0.0	0.0	0.4	1.0	2.3	3.0	4.2	5.0	11	1.2













MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 33002 PHARMACY AND 401, SCARBOROUGH

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	1.5	6	16
FEB	28	2.5	7	18
MAR	28	0.8	5	6
APR	30	1.4	4	11
MAY	29	1.7	7	13
JUN	24	0.7	2	5
JUL	31	0.9	3	6
AUG	30	1.0	3	7
SEP	30	0.7	2	6
OCT	31	1.9	4	10
NOV	28	0.6	4	11
DEC	30	1.9	5	9
YEAR	350	1.3	7	18

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 33002 PHARMACY AND 401, SCARBOROUGH

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	698	32	4	1	0	0	735
FEB	515	134	10	4	0	0	663
MAR	665	39	0	0	0	0	704
APR	683	16	1	0	0	0	700
MAY	613	87	3	0	0	0	703
JUN	622	1	0	0	0	0	623
JUL	692	8	0	0	0	0	700
AUG	711	5	0	0	0	0	716
SEP	703	1	0	0	0	0	704
OCT	715	18	0	0	0	0	733
NOV	666	9	1	0	0	0	676
DEC	644	69	0	0	0	0	713
YEAR	7927	419	19	5	0	0	8370

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
95.5	0	0.0	0.0	0.4	1.1	2.7	4.1	5.5	6.0	18	1.3















MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 33003 LAWRENCE/KENNEDY SCARBOROUGH

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	2.7	7	16
FEB	28	2.3	7	15
MAR	31	1.6	6	7
APR	29	1.2	4	12
MAY	31	0.5	3	7
JUN	28	0.2	1	5
JUL	29	0.0	1	7
AUG	29	0.3	4	8
SEP	30	0.7	2	6
OCT	30	2.4	6	11
NOV	28	0.9	3	6
DEC	28	1.3	5	9
YEAR	352	1.2	7	16

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 33003 LAWRENCE/KENNEDY SCARBOROUGH

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	583	141	4	1	0	0	729
FEB	585	68	5	1	0	0	659
MAR	691	39	0	0	0	0	730
APR	672	6	2	0	0	0	680
MAY	725	5	0	0	0	0	730
JUN	671	1	0	0	0	0	672
JUL	680	1	0	0	0	0	681
AUG	690	6	0	0	0	0	696
SEP	687	2	0	0	0	0	689
OCT	610	96	1	0	0	0	707
NOV	661	4	0	0	0	0	665
DEC	657	20	0	0	0	0	677
YEAR	7912	389	12	2	0	0	8315

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
94.9	0	0.0	0.0	0.2	0.9	2.8	4.0	5.3	6.3	16	1.2









ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE															UNITS - 0.01 PARTS/MILLION																			
STATION - C NO 33019															MET BRANCH SCARBOROUGH BLUFFS. SCARBORO										MONTH - JUL 77									
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN									
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0											
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
3	0	1	0	0	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	2	1									
4	2	1	1	1	2	2	1	2	2	2	2	2	2	2	3	3	3	3	4	4	5	3	2	1	2									
5	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	3	3	3	3	3	3	3	3	2									
6	3	3	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3	2									
7	3	3	3	4	4	4	4	4	4	4	3	4	4	3	3	3	3	3	3	3	3	3	2	2	3									
8	2	1	1	1	1	1	0	0	0	0	0	1	1	1	1	2	2	3	4	3	1	1	1	0	1									
9	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	2	2	1	1	1	1	1	0	0	1									
10	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0									
11	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1									
12	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	2	2	2	2	3	2	1	1									
13	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1									
14	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1	1	1	1	1	2	2	1	1	3	1									
15	2	1	1	2	3	3	3	2	1	2	2	2	3	4	4	3	2	2	2	2	2	1	1	2	2									
16	1	1	1	1	1	0	1	1	1	1	2	2	3	3	3	4	4	4	4	4	3	3	3	2	2									
17	2	2	2	3	3	2	2	2	2	2	2	3	3	3	3	3	3	2	2	2	2	2	1	1	2									
18	1	1	1	1	0	1	1	1	2	2	1	2	2	2	2	2	4	4	4	3	2	2	2	1	2									
19	3	3	3	4	3	2	3	2	2	2	2	2	2	2	2	1	1	1	2	2	2	1	1	1	2									
20	0	0	0	0	0	0	0	0	1	1	1	2	2	2	3	3	3	3	3	2	2	2	2	2	1									
21	2	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0										
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
23																																		
24																																		
25																																		
26																																		
27	-	-	-	-	-	-	-	-	-	-	-	0	0	1	2	2	1	1	1	1	2	2	2	2	2									
28	2	2	1	1	1	1	2	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2									
29	2	1	1	1	1	1	1	1	2	2	1	1	2	1	1	2	2	2	2	2	1	1	2	2	1									
30	2	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	1	1	1	1									
31	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2									
MEAN	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	1	1	1.1									

PERCENTAGE OF DATA VALID - 83.9 PERCENTAGE OF DATA INVALID - 0.1 PERCENTAGE OF DATA UNAVAILABLE - 16.0

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
 2. \*\* INDICATES DATA IS UNAVAILABLE  
 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE															UNITS - 0.01 PARTS/MILLION										
STATION - C NO 33019 MET BRANCH SCARBOROUGH BLUFFS. SCARBORO															MONTH - AUG 77										
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	2	2	2	2	2	1	1	1	2	2	1	2	2	1	1	1	1	2	1	1	1	1	1	1
2	0	0	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	2	2	2	2	2	2	2	1
3	2	2	1	1	1	1	1	1	2	2	1	1	1	2	1	1	2	2	2	2	3	3	3	4	2
4	3	3	3	3	3	2	3	3	3	6	5	3	3	3	3	3	4	3	4	4	4	4	3	2	3
5	2	1	1	1	1	1	2	1	1	1	1	1	1	1	2	3	4	4	4	4	4	4	4	3	2
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	1	1	1	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0
8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1
10	1	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	1
11	1	1	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	1
13	4	4	4	3	3	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	2	2	2	2	3
14	3	2	2	2	2	2	2	2	1	2	1	1	2	1	2	2	2	2	1	1	1	1	1	1	2
15	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	1	0	0	0	1	1	0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	2
18	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	0	1
19	1	1	1	1	2	1	1	3	4	7	5	3	2	1	1	2	2	2	2	1	1	1	1	2	1
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1
21	2	2	1	1	1	1	1	1	0	0	0	1	1	1	1	1	2	1	1	1	1	1	1	1	1
22	1	1	0	0	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	1	0	0	0	0	0	0
25	0	0	0	1	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1
26	1	0	0	0	0	0	0	0	0	0	0	1	0	1	1	2	2	2	2	2	2	2	2	2	2
27	1	1	2	1	1	1	1	1	1	1	1	1	1	2	2	3	2	2	2	3	2	2	3	3	3
28	2	3	2	2	2	2	2	2	2	3	4	3	3	3	4	3	4	3	4	4	3	3	3	3	3
29	2	2	3	3	4	3	2	3	3	3	3	4	3	1	1	1	2	1	1	2	1	1	1	1	2
30	1	1	1	1	0	0	0	1	1	1	0	1	0	0	0	0	1	2	1	2	1	1	1	1	1
31	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	2	1	1	2	3	3	1
MEAN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1.2

PERCENTAGE OF DATA VALID - 99.5 PERCENTAGE OF DATA INVALID - 0.5 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
 2. \*\* INDICATES DATA IS UNAVAILABLE  
 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY





ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 33019 MET BRANCH SCARBOROUGH BLUFFS, SCARBORO

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	3.3	9	22
FEB	28	2.3	8	15
MAR	31	1.5	4	10
APR	30	1.2	4	9
MAY	28	1.1	2	7
JUN	30	1.0	2	8
JUL	25	1.4	3	5
AUG	31	1.2	3	7
SEP	30	0.6	2	5
OCT	31	0.9	3	8
NOV	30	0.9	3	5
DEC	31	1.7	4	11
YEAR	356	1.4	9	22

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 33019 MET BRANCH SCARBOROUGH BLUFFS, SCARBORO

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	558	158	21	6	0	0	743
FEB	571	89	6	1	0	0	667
MAR	718	25	0	0	0	0	743
APR	698	13	0	0	0	0	711
MAY	664	11	0	0	0	0	675
JUN	710	6	0	0	0	0	716
JUL	623	1	0	0	0	0	624
AUG	736	4	0	0	0	0	740
SEP	718	1	0	0	0	0	719
OCT	740	2	0	0	0	0	742
NOV	714	3	0	0	0	0	717
DEC	715	22	1	0	0	0	738
YEAR	8165	335	28	7	0	0	8535

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
97.4	0	0.0	0.1	0.6	1.2	2.6	3.8	6.0	7.8	22	1.4









POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 34002 SC CTR 770 DON MILLS RD. NORTH YORK

MONTH - JUL 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	3	2	1	1	1	1
5	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	2	2	2	1	1	1	1	1
6	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0
10	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1	2	2	2	1	2	1	1	1	2	2	1	1	1	1	1	1	1
13																									
14																									
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29																									
30																									
31																									
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	0	0	0	0	0.4

PERCENTAGE OF DATA VALID - 37.1

PERCENTAGE OF DATA INVALID - 62.6

PERCENTAGE OF DATA UNAVAILABLE - 0.3

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH  
MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 34002 SC CTR 770 DON MILLS RD. NORTH YORK

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	1.4	5	10
FEB	26	1.4	4	10
MAR	31	1.1	2	5
APR	23	0.7	2	6
MAY	31	0.5	2	4
JUN	29	0.6	2	3
JUL	12	0.4	1	3
AUG		DATA UNAVAILABLE		
SEP		DATA UNAVAILABLE		
OCT		DATA UNAVAILABLE		
NOV		DATA UNAVAILABLE		
DEC		DATA UNAVAILABLE		
YEAR	183	0.9	5	10

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 34002 SC CTR 770 DON MILLS RD. NORTH YORK

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	689	33	0	0	0	0	722
FEB	600	30	0	0	0	0	630
MAR	716	3	0	0	0	0	719
APR	557	2	0	0	0	0	559
MAY	730	0	0	0	0	0	730
JUN	674	0	0	0	0	0	674
JUL	276	0	0	0	0	0	276
AUG	DATA UNAVAILABLE						
SEP	DATA UNAVAILABLE						
OCT	DATA UNAVAILABLE						
NOV	DATA UNAVAILABLE						
DEC	DATA UNAVAILABLE						
YEAR	4242	68	0	0	0	0	4310

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
84.7	0	0.0	0.0	0.2	0.7	1.7	2.4	3.7	4.9	10	0.9















## MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 34007 BATHURST/WILSON, NORTH YORK

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	1.7	7	13
FEB	28	1.0	5	11
MAR	31	1.0	3	16
APR	26	1.2	3	20
MAY	29	1.1	4	14
JUN	30	1.2	3	18
JUL	31	1.8	11	20
AUG	31	1.1	2	9
SEP	30	0.6	2	4
OCT	29	1.0	5	24
NOV	26	1.6	4	8
DEC	30	1.9	5	9
YEAR	352	1.3	11	24

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

## MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 34007 BATHURST/WILSON, NORTH YORK

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	671	60	3	0	0	0	734
FEB	633	20	1	0	0	0	654
MAR	717	13	2	1	0	0	733
APR	630	15	4	1	0	0	650
MAY	695	17	3	0	0	0	715
JUN	689	10	2	2	0	0	703
JUL	658	35	13	6	0	0	712
AUG	732	5	0	0	0	0	737
SEP	686	0	0	0	0	0	686
OCT	677	10	1	2	0	0	690
NOV	620	32	0	0	0	0	652
DEC	667	47	0	0	0	0	714
YEAR	8075	264	29	12	0	0	8380

## FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
95.7	0	0.0	0.0	0.4	1.0	2.5	3.6	5.3	7.4	24	1.3















MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 35003 ELMCREST ROAD, ETOBICOKE

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	30	2.2	7	9
FEB	28	1.8	6	11
MAR	28	1.1	2	23
APR	29	0.8	2	13
MAY	30	1.4	4	41
JUN	29	1.1	3	17
JUL	30	1.4	4	29
AUG	28	0.7	2	13
SEP	30	0.4	1	5
OCT	31	0.6	2	12
NOV	25	0.5	2	4
DEC	31	0.8	2	7
YEAR	349	1.1	7	41

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 35003 ELMCREST ROAD, ETOBICOKE

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	644	71	0	0	0	0	715
FEB	624	31	1	0	0	0	656
MAR	690	3	0	1	0	0	694
APR	688	6	2	0	0	0	696
MAY	661	38	1	1	1	1	703
JUN	679	12	3	1	0	0	695
JUL	658	34	1	1	1	0	695
AUG	673	8	3	0	0	0	684
SEP	707	1	0	0	0	0	708
OCT	732	8	1	0	0	0	741
NOV	637	0	0	0	0	0	637
DEC	733	5	0	0	0	0	738
YEAR	8126	217	12	4	2	1	8362

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
95.5	0	0.0	0.0	0.3	0.8	2.1	3.0	4.7	6.0	41	1.1













MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 35005 QUEENSWAY HOSPITAL ETOBICOKE

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	2.3	7	11
FEB	28	2.0	7	14
MAR	30	1.2	2	6
APR	29	1.1	3	8
MAY	30	1.0	3	17
JUN	28	0.7	2	7
JUL	25	0.8	2	15
AUG	30	0.8	3	8
SEP	30	0.7	3	9
OCT	30	0.9	4	14
NOV	27	0.8	2	4
DEC	31	0.8	2	5
YEAR	349	1.1	7	17

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 35005 QUEENSWAY HOSPITAL ETOBICOKE

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	637	92	2	0	0	0	731
FEB	609	49	8	0	0	0	666
MAR	723	6	0	0	0	0	729
APR	683	14	0	0	0	0	697
MAY	707	19	0	1	0	0	727
JUN	680	4	0	0	0	0	684
JUL	624	10	1	1	0	0	636
AUG	703	14	0	0	0	0	717
SEP	698	14	0	0	0	0	712
OCT	704	17	1	0	0	0	722
NOV	657	0	0	0	0	0	657
DEC	732	3	0	0	0	0	735
YEAR	8157	242	12	2	0	0	8413

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
96.0	0	0.0	0.0	0.4	0.8	2.0	3.0	4.9	6.1	17	1.1















ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 35033 EVANS/ARNOLD AVE. ETOBICOKE

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	1.5	6	12
FEB	26	1.4	7	14
MAR	31	1.2	3	7
APR	28	1.0	3	9
MAY	31	0.6	3	11
JUN	26	0.7	2	5
JUL	20	1.2	4	6
AUG	28	1.1	4	5
SEP	26	1.3	3	7
OCT	28	1.1	3	7
NOV	29	0.3	2	8
DEC	29	1.1	3	12
YEAR	333	1.0	7	14

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 35033 EVANS/ARNOLD AVE. ETOBICOKE

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	656	69	1	0	0	0	726
FEB	591	35	3	0	0	0	629
MAR	717	9	0	0	0	0	726
APR	658	13	0	0	0	0	671
MAY	715	10	1	0	0	0	726
JUN	645	1	0	0	0	0	646
JUL	489	14	0	0	0	0	503
AUG	663	5	0	0	0	0	668
SEP	612	9	0	0	0	0	621
OCT	664	3	0	0	0	0	667
NOV	659	2	0	0	0	0	661
DEC	696	20	1	0	0	0	717
YEAR	7765	190	6	0	0	0	7961

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
90.9	0	0.0	0.0	0.3	0.8	2.0	2.9	4.4	5.5	14	1.0















MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 35050 MOE LAB RESOURCES RD ETOBICOKE

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	1.9	7	15
FEB	27	1.6	8	21
MAR	29	1.2	3	8
APR	28	1.1	3	15
MAY	29	1.1	4	22
JUN	30	1.2	6	23
JUL	28	1.3	5	29
AUG	25	0.8	2	13
SEP	28	0.5	2	7
OCT	28	1.2	5	15
NOV	29	0.8	3	25
DEC	30	1.2	3	6
YEAR	342	1.1	8	29

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 35050 MOE LAB RESOURCES RD ETOBICOKE

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	664	74	1	1	0	0	740
FEB	603	28	6	2	0	0	639
MAR	670	13	0	0	0	0	683
APR	665	21	1	1	0	0	688
MAY	678	23	6	3	0	0	710
JUN	690	18	6	4	0	0	718
JUL	629	19	2	4	1	0	655
AUG	603	6	2	0	0	0	611
SEP	669	3	0	0	0	0	672
OCT	657	28	0	1	0	0	686
NOV	689	11	0	1	0	0	701
DEC	708	17	0	0	0	0	725
YEAR	7925	261	24	17	1	0	8228

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
93.9	0	0.0	0.0	0.3	0.8	2.1	3.5	5.5	7.2	29	1.1















ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 44007 2037 PINE ST BURLINGTON

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	14	3.7	8	12
FEB	27	1.8	4	7
MAR	30	1.2	2	6
APR	25	1.0	2	4
MAY	24	1.5	3	5
JUN	29	0.9	3	5
JUL	27	0.7	2	4
AUG	22	0.8	3	6
SEP	26	0.5	2	6
OCT	22	0.9	2	6
NOV	28	1.0	2	6
DEC	28	0.9	2	5
YEAR	302	1.1	8	12

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 44007 2037 PINE ST BURLINGTON

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	276	78	3	0	0	0	357
FEB	601	28	0	0	0	0	629
MAR	707	4	0	0	0	0	711
APR	624	0	0	0	0	0	624
MAY	608	1	0	0	0	0	609
JUN	695	1	0	0	0	0	696
JUL	676	0	0	0	0	0	676
AUG	554	2	0	0	0	0	556
SEP	642	1	0	0	0	0	643
OCT	585	1	0	0	0	0	586
NOV	682	3	0	0	0	0	685
DEC	663	2	0	0	0	0	665
YEAR	7313	121	3	0	0	0	7437

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
84.9	0	0.0	0.0	0.4	1.0	2.0	2.8	3.8	5.0	12	1.1















MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 44010 1298 REBECCA ST OAKVILLE

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	30	1.9	7	10
FEB	23	0.8	3	5
MAR	24	1.1	2	9
APR	28	1.1	2	5
MAY	29	0.9	2	16
JUN	30	0.8	2	7
JUL	30	0.5	3	5
AUG	31	0.6	3	23
SEP	30	0.5	2	7
OCT	30	0.5	2	10
NOV	30	0.4	2	5
DEC	31	1.1	3	7
YEAR	346	0.9	7	23

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 44010 1298 REBECCA ST OAKVILLE

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	641	80	0	0	0	0	721
FEB	593	7	0	0	0	0	600
MAR	606	10	0	0	0	0	616
APR	687	2	0	0	0	0	689
MAY	710	5	0	1	0	0	716
JUN	709	4	0	0	0	0	713
JUL	724	3	0	0	0	0	727
AUG	733	1	1	2	0	0	737
SEP	713	4	0	0	0	0	717
OCT	723	4	0	0	0	0	727
NOV	710	1	0	0	0	0	711
DEC	727	9	0	0	0	0	736
YEAR	8276	130	1	3	0	0	8410

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
96.0	0	0.0	0.0	0.1	0.7	1.7	2.5	3.7	4.7	23	0.9







POLLUTANT - SULPHUR DIOXIDE												UNITS - 0.01 PARTS/MILLION													
STATION - C NO 47040 POLICE STATION 65 VESPRE ST. BARRIE												MONTH - NOV 77													
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	1	1	1	2	1	2	1	0	0	0	0	0	0	1	0
2	0	0	0	0	0	0	0	0	0	1	1	2	1	1	2	1	1	1	1	1	1	0	1	1	1
3	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	2	2	1	1	1	1	2	2	1	1
4	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1
14	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15																									
16																									
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30																									
MEAN	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0.3

PERCENTAGE OF DATA VALID - 44.9

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 54.9

NOTES 1. "\*\*\*\*\*" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "\*\*\*\*\*" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY



ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 47040 POLICE STATION 65 VESPRE ST. BARRIE

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN		DATA UNAVAILABLE		
FEB		DATA UNAVAILABLE		
MAR		DATA UNAVAILABLE		
APR		DATA UNAVAILABLE		
MAY	6	0.9	1	2
JUN	13	0.6	1	5
JUL	13	0.4	1	4
AUG	20	0.4	1	3
SEP	25	0.5	2	3
OCT	31	0.9	4	9
NOV	13	0.3	1	2
YEAR	121	0.6	4	9

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 47040 POLICE STATION 65 VESPRE ST. BARRIE

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	DATA UNAVAILABLE						
FEB	DATA UNAVAILABLE						
MAR	DATA UNAVAILABLE						
APR	DATA UNAVAILABLE						
MAY	155	0	0	0	0	0	155
JUN	347	2	0	0	0	0	349
JUL	356	0	0	0	0	0	356
AUG	501	0	0	0	0	0	501
SEP	627	0	0	0	0	0	627
OCT	709	19	0	0	0	0	728
NOV	323	0	0	0	0	0	323
YEAR	3018	21	0	0	0	0	3039

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
59.2	0	0.0	0.0	0.0	0.4	1.0	1.7	2.6	3.4	9	0.6













MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 48002 TRAILER/MTC YARD #9 HWY 47, STOUFFVILLE

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	24	1.3	6	12
FEB	18	0.4	2	4
MAR	6	0.6	1	4
APR	8	0.7	1	4
MAY	31	0.9	3	11
JUN	30	0.7	1	3
JUL	24	0.5	1	2
AUG	27	0.2	1	2
SEP	30	0.2	1	1
OCT	31	0.3	2	6
NOV	30	0.6	2	5
DEC	28	0.9	2	4
YEAR	287	0.6	6	12

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 48002 TRAILER/MTC YARD #9 HWY 47, STOUFFVILLE

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	541	35	2	0	0	0	578
FEB	461	0	0	0	0	0	461
MAR	179	0	0	0	0	0	179
APR	200	0	0	0	0	0	200
MAY	737	4	1	0	0	0	742
JUN	719	0	0	0	0	0	719
JUL	604	0	0	0	0	0	604
AUG	659	0	0	0	0	0	659
SEP	718	0	0	0	0	0	718
OCT	737	2	0	0	0	0	739
NOV	708	3	0	0	0	0	711
DEC	681	0	0	0	0	0	681
YEAR	6944	44	3	0	0	0	6991

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
79.8	0	0.0	0.0	0.0	0.4	1.0	1.8	2.8	3.7	12	0.6















ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SE NO 51001 MCDONALD GDN RIDEAU/WURTEMBERG ST.OTTAWA

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	26	2.5	7	14
FEB	16	2.9	5	9
MAR	27	1.4	4	7
APR	30	1.4	3	7
MAY	31	1.0	3	5
JUN	28	0.4	2	4
JUL	25	0.5	2	4
AUG	20	0.6	2	4
SEP	14	0.3	2	5
OCT	31	0.5	1	4
NOV	30	0.8	4	8
DEC	29	2.7	5	9
YEAR	307	1.2	7	14

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SE NO 51001 MCDONALD GDN RIDEAU/WURTEMBERG ST.OTTAWA

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	550	89	5	0	0	0	644
FEB	336	83	0	0	0	0	419
MAR	634	15	0	0	0	0	649
APR	703	8	0	0	0	0	711
MAY	737	1	0	0	0	0	738
JUN	688	0	0	0	0	0	688
JUL	604	0	0	0	0	0	604
AUG	520	0	0	0	0	0	520
SEP	341	2	0	0	0	0	343
OCT	733	0	0	0	0	0	733
NOV	700	13	0	0	0	0	713
DEC	641	65	0	0	0	0	706
YEAR	7187	276	5	0	0	0	7468

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID				CONCENTRATIONS FREQUENCY DISTRIBUTION, PERCENT							ARITH MEAN	
MIN	10	30	50	70	90	95	98	99	MAX			
85.3	0	0.0	0.0	0.4	1.1	2.7	3.6	4.8	5.8	14	1.2	















MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SE NO 52020 CHURCHILL PK NAPIER ST KINGSTON

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	28	1.4	5	8
FEB	24	1.5	5	8
MAR	30	0.7	2	8
APR	19	0.3	1	3
MAY	27	0.4	2	10
JUN	29	0.2	3	6
JUL	31	0.4	4	6
AUG	26	3.7	5	10
SEP	26	0.2	4	6
OCT	31	0.4	2	3
NOV	30	0.2	3	9
DEC	28	0.8	2	5
YEAR	329	0.8	5	10

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SE NO 52020 CHURCHILL PK NAPIER ST KINGSTON

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	590	32	0	0	0	0	622
FEB	524	28	0	0	0	0	552
MAR	662	3	0	0	0	0	665
APR	434	0	0	0	0	0	434
MAY	632	7	0	0	0	0	639
JUN	666	4	0	0	0	0	670
JUL	680	17	0	0	0	0	677
AUG	463	163	0	0	0	0	626
SEP	638	8	0	0	0	0	646
OCT	741	0	0	0	0	0	741
NOV	706	10	0	0	0	0	716
DEC	688	1	0	0	0	0	689
YEAR	7404	273	0	0	0	0	7677

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
87.6	0	0.0	0.0	0.0	0.5	2.2	3.5	5.0	5.8	10	0.8









UNITS - 0.01 PARTS/MILLION

MEMORIAL PARK YORK/THIRD ST., CORNWALL

MONTH - JUL 77

	STATION - SE NO 56051					MEMORIAL PARK YORK/THIRD ST., CORNWALL																									
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN							
1	1	1	1	1	1	1	2	1	1	2	1	2	2	2	1	1	2	2	2	2	2	1	1	1							
2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	0	0	0	0	1							
3	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	5	4	4	3	2	1	1	1	2							
4	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1							
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	.....	.....	.....	.....	.....	.....	.....	.....							
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
8	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	2	2	2	2	2	3	3	2	2	2	1	1	1	.....							
9	2	2	1	1	1	1	1	1	1	2	4	2	1	1	1	2	2	2	2	2	1	1	1	1							
10	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	2	2	2	2	1	1	1	1							
11	0	0	0	0	0	0	0	1	2	3	4	2	2	1	1	2	2	2	3	1	1	1	1	1							
12	1	1	1	1	1	1	1	1	.....	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0							
13	0	0	0	0	0	0	0	0	0	1	5	2	2	2	2	2	2	3	2	1	1	1	1	1							
14	0	0	0	0	0	0	1	.....	.....	2	2	3	.....	3	3	2	1	1	0	0	0	0	0	0							
15	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
16	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0							
17	0	0	0	0	0	0	0	0	0	1	1	1	1	2	3	2	1	2	1	0	0	0	0	0							
18	0	0	0	0	0	0	0	0	0	1	1	1	2	3	3	3	3	2	2	2	2	2	2	2							
19	1	1	1	2	2	2	1	2	3	3	3	3	2	2	2	.....	.....	2	2	2	2	2	2	3							
20	2	2	2	2	2	2	3	2	.....	3	2	2	2	2	2	.....	.....	2	2	2	2	2	2	2							
21	3	3	3	2	2	3	2	2	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0							
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
23	0	0	0	0	0	0	1	2	3	2	1	1	2	1	1	.....	.....	.....	.....	3	3	3	3	3							
24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....							
25	3	3	3	3	3	4	4	3	8	6	4	2	1	.....	0	0	0	0	0	0	0	0	0	0							
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
27	0	0	0	0	0	0	0	1	3	.....	0	1	1	1	1	.....	.....	.....	.....	0	0	0	0	0							
28	0	1	1	1	1	1	1	1	1	1	0	0	1	0	.....	1	0	0	0	1	0	0	1	0							
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
30	1	1	0	0	0	0	0	0	1	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0							
31	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0							
MEAN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9							

PERCENTAGE OF DATA VALID - 88.8      PERCENTAGE OF DATA INVALID - 11.2      PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "\*\*\*\*\*" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
2. ".\*" INDICATES DATA IS UNAVAILABLE  
3. "\*\*\*\*\*" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

MEMORIAL PARK YORK/THIRD ST., CORNWALL

MONTH - AUG 77

[illegible]

PERCENTAGE OF DATA INVALID - 41.1

PERCENTAGE OF DATA UNAVAILABLE - 1.2

NOTES 1. "\*\*\*\*\*" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
2. ".\*" INDICATES DATA IS UNAVAILABLE  
3. "\*\*\*\*\*" INDICATES LEW5 THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY





ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SE NO 56051 MEMORIAL PARK YORK/THIRD ST., CORNWALL

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	2.7	8	11
FEB	26	2.9	6	17
MAR	31	1.6	4	12
APR	27	1.8	7	25
MAY	31	1.2	4	5
JUN	30	1.3	4	14
JUL	26	0.9	2	8
AUG	18	1.6	5	15
SEP	14	0.6	2	4
OCT	30	1.3	4	12
NOV	30	1.5	4	10
DEC	29	2.6	7	48
YEAR	323	1.7	8	48

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SE NO 56051 MEMORIAL PARK YORK/THIRD ST., CORNWALL

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	592	128	5	0	0	0	725
FEB	519	116	4	1	0	0	640
MAR	698	35	1	0	0	0	734
APR	606	37	6	3	0	0	652
MAY	730	5	0	0	0	0	735
JUN	681	28	5	0	0	0	714
JUL	656	5	0	0	0	0	661
AUG	393	32	3	1	0	0	429
SEP	334	0	0	0	0	0	334
OCT	693	26	4	0	0	0	723
NOV	687	27	0	0	0	0	714
DEC	605	78	21	3	0	1	708
YEAR	7194	517	49	8	0	1	7769

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT  
OF DATA  
VALID

88.7

0

0.0

0.1

0.8

1.6

3.5

4.8

6.9

9.1

48

1.7

CONCENTRATIONS  
FREQUENCY DISTRIBUTION, PERCENT

98

99

MAX

ARITH  
MEAN















MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 59006 CITY HALL 500 GEORGE ST. PETERBOROUGH

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	14	2.0	3	10
FEB	26	1.5	5	9
MAR	31	0.5	2	4
APR	30	0.3	1	3
MAY	24	0.2	1	3
JUN	30	0.1	1	2
JUL	31	0.1	1	3
AUG	31	0.0	0	3
SEP	30	0.1	1	2
OCT	26	0.4	2	4
NOV	30	0.2	2	3
DEC	31	0.5	2	4
YEAR	334	0.4	5	10

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 59006 CITY HALL 500 GEORGE ST. PETERBOROUGH

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	299	25	0	0	0	0	324
FEB	538	44	0	0	0	0	582
MAR	683	0	0	0	0	0	683
APR	662	0	0	0	0	0	662
MAY	575	0	0	0	0	0	575
JUN	720	0	0	0	0	0	720
JUL	743	0	0	0	0	0	743
AUG	743	0	0	0	0	0	743
SEP	718	0	0	0	0	0	718
OCT	641	0	0	0	0	0	641
NOV	718	0	0	0	0	0	718
DEC	739	0	0	0	0	0	739
YEAR	7779	69	0	0	0	0	7848

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
89.6	0	0.0	0.0	0.0	0.0	0.9	1.7	3.0	3.9	10	0.4





POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

HOUR DAY	STATION - NW NO 61010				LASSIE/DICKENSON RDS				BALMERTOWN				MONTH - DEC 77											24	MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0
2	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0
3	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0
4	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0
5	14	9	6	****	14	2	4	1	4	4	3	5	2	3	0	****	0	1	2	7	8	9	13	17	3
6	14	15	6	****	1	3	1	1	1	1	0	0	0	0	0	****	0	0	1	0	0	0	0	2	3
7	0	0	0	****	1	0	0	0	0	****	****	****	****	****	****	****	6	8	4	0	0	1	1	1	1
8	1	0	0	0	0	0	12	12	****	6	10	4	0	0	0	0	0	0	0	0	0	0	0	0	2
9	0	0	0	0	0	0	****	****	****	6	10	4	0	0	0	0	0	0	0	0	0	0	0	0	2
10	0	0	0	0	0	0	0	0	****	1	0	0	0	0	0	0	0	0	0	0	0	****	****	****	0
11	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	****	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	3	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	****	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
16	2	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	****	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	****	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	****	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	1	1	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.4

PERCENTAGE OF DATA VALID - 93.3

PERCENTAGE OF DATA INVALID - 6.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "\*\*\*\*" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "\*\*\*\*\*" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH  
 MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977  
 POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION  
 STATION - NW NO 61010 LASSIE/DICKENSON RDS BALMERTOWN

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN		DATA UNAVAILABLE		
FEB		DATA UNAVAILABLE		
MAR		DATA UNAVAILABLE		
APR	24	1.7	12	48
MAY	4	0.0	0	0
JUN		DATA UNAVAILABLE		
JUL		DATA UNAVAILABLE		
AUG		DATA UNAVAILABLE		
SEP		DATA UNAVAILABLE		
OCT	25	1.0	10	46
NOV	27	1.2	22	56
DEC	31	0.4	3	17
YEAR	111	1.0	22	56

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977  
 POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION  
 STATION - NW NO 61010 LASSIE/DICKENSON RDS BALMERTOWN

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN		DATA UNAVAILABLE					
FEB		DATA UNAVAILABLE					
MAR		DATA UNAVAILABLE					
APR	489	17	6	17	4	5	538
MAY	82	0	0	0	0	0	82
JUN		DATA UNAVAILABLE					
JUL		DATA UNAVAILABLE					
AUG		DATA UNAVAILABLE					
SEP		DATA UNAVAILABLE					
OCT	527	7	1	7	5	4	551
NOV	576	7	5	3	6	7	604
DEC	674	12	6	2	0	0	694
YEAR	2348	43	18	29	15	16	2469

FREQUENCY PERCENT OF DATA VALID	DISTRIBUTION BY PERCENTILES										MAX	ARITH MEAN
	MIN	10	30	50	70	90	95	98	99			
67.2	0	0.0	0.0	0.0	0.0	0.0	3.8	16.5	31.3	56	1.0	









POLLUTANT - SULPHUR DIOXIDE										UNITS - 0.01 PARTS/MILLION										MONTH - DEC 77					
STATION - NW NO 63012 DAWSON CT ALGOMA ST NORTH. THUNDER BAY																									
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
DAY																									
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	1	1	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	3	0	1
17	0	0	0	0	1	2	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	3	0
18	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	0	0	0	0	0	0
20	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1

PERCENTAGE OF DATA VALID - 99.7

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "\*\*\*\*\*" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. ".\*" INDICATES DATA IS UNAVAILABLE

3. "\*\*\*\*\*" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NW NO 63012 DAWSON CT ALGOMA ST NORTH, THUNDER BAY

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN		DATA UNAVAILABLE		
FEB		DATA UNAVAILABLE		
MAR		DATA UNAVAILABLE		
APR		DATA UNAVAILABLE		
MAY		DATA UNAVAILABLE		
JUN	17	0.1	0	2
JUL	31	0.2	2	11
AUG	31	0.1	1	7
SEP	22	0.1	1	9
OCT	26	0.0	0	1
NOV	28	0.0	0	0
DEC	31	0.1	1	3
YEAR	186	0.1	2	11

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NW NO 63012 DAWSON CT ALGOMA ST NORTH, THUNDER BAY

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	DATA UNAVAILABLE						
FEB	DATA UNAVAILABLE						
MAR	DATA UNAVAILABLE						
APR	DATA UNAVAILABLE						
MAY	DATA UNAVAILABLE						
JUN	417	0	0	0	0	0	417
JUL	738	3	1	0	0	0	742
AUG	738	1	0	0	0	0	739
SEP	548	1	0	0	0	0	549
OCT	638	0	0	0	0	0	638
NOV	676	0	0	0	0	0	676
DEC	742	0	0	0	0	0	742
YEAR	4497	5	1	0	0	0	4503

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	PERCENT 95	98	99	MAX	ARITH MEAN
87.7	0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	1.0	11	0.1









ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - NW NO 63040 435 JAMES ST S THUNDER BAY		MONTH - JUL 77																							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	2	3	5	3	1	0	0	1	1	1	0	1	0	0	1	0	1	1	1	1	0	1	1	0	0
5	0	0	0	0	0	0	0	1	1	1	1	0	0	1	5	1	0	0	0	0	0	0	0	0	1
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	1	2	1	1	1	2	0	1	2	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	2	1	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2

PERCENTAGE OF DATA VALID - 99.5

PERCENTAGE OF DATA INVALID - 0.5

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - NW NO 63040 435 JAMES ST S THUNDER BAY		MONTH - AUG 77																							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*****
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*****
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1

PERCENTAGE OF DATA VALID - 94.0

PERCENTAGE OF DATA INVALID - 1.9

PERCENTAGE OF DATA UNAVAILABLE - 4.2

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA D



ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - NW NO 63040 435 JAMES ST S THUNDER BAY		MONTH - NOV 77																							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0
3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	1	9	2	0	0	0	0	0	0	0	0	0	1	1
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19															****	-	-	-	-	-	-	-	-	-	*****
20																									
21																									
22	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
23	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0	0	0	0	1	0	1	0	0
30	1	1	1	1	1	1	1	1	2	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	1
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1

PERCENTAGE OF DATA VALID - 86.3 PERCENTAGE OF DATA INVALID - 4.7 PERCENTAGE OF DATA UNAVAILABLE - 9.0

- NOTES 1. "\*\*\*\*\*" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
 2. "-" INDICATES DATA IS UNAVAILABLE  
 3. "\*\*\*\*\*" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - NW NO 63040 435 JAMES ST S THUNDER BAY		MONTH - DEC 77																							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
16	0	0	0	0	1	1	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0

PERCENTAGE OF DATA VALID - 99.9 PERCENTAGE OF DATA INVALID - 0.1 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. "\*\*\*\*\*" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
 2. "-" INDICATES DATA IS UNAVAILABLE  
 3. "\*\*\*\*\*" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NW NO 63040 435 JAMES ST S THUNDER BAY

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	20	0.0	0	1
FEB	26	0.0	0	4
MAR	23	0.1	1	6
APR	27	0.2	1	8
MAY	31	0.5	2	13
JUN	30	0.3	1	11
JUL	31	0.2	1	8
AUG	29	0.1	1	10
SEP	28	0.1	1	9
OCT	25	0.1	1	6
NOV	25	0.1	1	9
DEC	31	0.0	1	3
YEAR	326	0.2	2	13

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NW NO 63040 435 JAMES ST S THUNDER BAY

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	451	0	0	0	0	0	451
FEB	599	0	0	0	0	0	599
MAR	566	1	0	0	0	0	567
APR	607	6	0	0	0	0	613
MAY	674	15	1	0	0	0	690
JUN	703	3	1	0	0	0	707
JUL	735	5	0	0	0	0	740
AUG	695	4	0	0	0	0	699
SEP	691	1	0	0	0	0	692
OCT	619	1	0	0	0	0	620
NOV	620	1	0	0	0	0	621
DEC	743	0	0	0	0	0	743
YEAR	7703	37	2	0	0	0	7742

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
88.4	0	0.0	0.0	0.0	0.0	0.0	0.6	1.4	2.6	13	0.2

UNITS - 0.01 PARTS/MILLION

[illegible]

PERCENTAGE OF DATA VALID - 98.8

PERCENTAGE OF DATA INVALID - 1.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "\*\*\*\*" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2.     "-" INDICATES DATA IS UNAVAILABLE

3. "\*\*\*\*\*" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

[illegible]

PERCENTAGE OF DATA VALID - 98.2

PERCENTAGE OF DATA INVALID = 1.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "\*\*\*\*\*" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2.    "-" INDICATES DATA IS UNAVAILABLE

3. "\*\*\*\*\*" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY



ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

		POLLUTANT - SULPHUR DIOXIDE										UNITS - 0.01 PARTS/MILLION														
		STATION - NE NO 71001 29 HILLCREST AVE WAWA										MONTH - MAY '77														
HOUR	DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1		0	0	0	0	0	-	-	-	-	-	-	****	0	0	0	0	0	0	0	0	0	0	0	0	0
2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5		0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7		0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	9	1
15		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25		2	2	3	9	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	1
26		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28		0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0
29		0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31		0	0	0	0	****	****	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN		0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.

PERCENTAGE OF DATA VALID - 94.1

PERCENTAGE OF DATA INVALID - 4.7

PERCENTAGE OF DATA UNAVAILABLE - 1.2

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*-\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LE-S THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

		POLLUTANT - SULPHUR DIOXIDE										UNITS - 0.01 PARTS/MILLION														
		STATION - NE NO 71001 29 HILLCREST AVE WAWA										MONTH - JUN 77														
HOUR DAY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5		4	23	9	6	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
6		0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	3
7		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11		0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
22		6	5	4	4	4	3	3	2	0	0	0	0	0	0	0	0	0	0	0	0	5	16	12	3	0
23		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25		0	0	0	0	2	3	0	3	4	5	8	3	2	0	0	0	0	0	0	0	0	0	0	0	0
26		2	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0
27		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29		0	0	0	0	0	0	0	8	0	0	0	0	0	1	3	7	0	0	0	0	0	0	0	0	1
30		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN		1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0.3

PERCENTAGE OF DATA VALID - 99.6

PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*-\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LE-S THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE												UNITS - 0.01 PARTS/MILLION												
STATION - NE NO 71001 29 HILLCREST AVE WAWA												MONTH - JUL 77												
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 MEAN
1	0	0	0	0	0	0	0	***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	2	4	4	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	1	1	0	2	1	0	0	0	***	***	***	***	***	1	1	1
13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	***	0	0	0	0	0	0	52	3	0
15	0	0	0	0	0	0	0	0	0	0	0	0	11	4	2	1	0	0	0	0	0	0	0	1
16	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0
17	0	0	0	0	0	0	0	0	0	0	3	7	3	19	5	0	0	0	0	0	0	0	0	2
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	1	16	1	0	0	2	2	0	0	0	0	0	0	1
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	***	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	2	0	0.3

PERCENTAGE OF DATA VALID - 98.9

PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE												UNITS - 0.01 PARTS/MILLION												
STATION - NE NO 71001 29 HILLCREST AVE WAWA												MONTH - AUG 77												
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	***	***	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	23	42	4	8	7	0	0	0	0	0	0	0	0	0	0	0	0	4
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	4	0	0	0	0	0	0	0	0	0	0	0	0	43	0	7	0	5	2	1	0	0	3	2
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	20	0	17	0	16	0	3
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	1	0	8	10	4	4	14	0	0	0	0	11	0	0	0	0	0	0	2
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	1	1	0	1	0	1	0	0.4

PERCENTAGE OF DATA VALID - 98.1

PERCENTAGE OF DATA INVALID - 1.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY







ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 71001 29 HILLCREST AVE WAWA

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	1.8	9	130
FEB	28	0.7	7	56
MAR	31	0.8	15	137
APR	30	0.5	5	19
MAY	29	0.1	1	26
JUN	30	0.3	3	23
JUL	31	0.3	3	52
AUG	30	0.4	4	43
SEP	19	0.3	5	106
OCT	31	2.6	26	176
NOV	27	2.4	26	190
DEC	31	1.1	8	175
YEAR	348	1.0	26	190

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 71001 29 HILLCREST AVE WAWA

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	668	32	7	13	9	6	735
FEB	641	3	4	7	3	2	660
MAR	712	14	2	2	2	5	737
APR	681	23	2	3	0	0	709
MAY	693	6	0	0	1	0	700
JUN	704	9	1	3	0	0	717
JUL	730	2	1	2	0	1	736
AUG	715	6	3	4	0	2	730
SEP	462	0	0	2	0	1	465
OCT	682	14	3	5	10	14	728
NOV	616	10	3	5	4	12	650
DEC	675	20	4	10	3	2	714
YEAR	7979	139	30	56	32	45	8281

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	CONCENTRATIONS FREQUENCY DISTRIBUTION.										ARITH MEAN
	MIN	10	30	50	70	90	PERCENT 95	98	99	MAX	
94.5	0	0.0	0.0	0.0	0.0	0.0	1.9	9.8	23.1	190	1.0







ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 71002 GOUDREAU ALGOMA

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN		DATA UNAVAILABLE		
FEB		DATA UNAVAILABLE		
MAR		DATA UNAVAILABLE		
APR		DATA UNAVAILABLE		
MAY	12	2.3	8	59
JUN	29	2.0	9	45
JUL	31	2.3	15	47
AUG	31	1.3	6	27
SEP	11	0.4	3	18
OCT	17	0.4	3	32
YEAR	131	1.6	15	59

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 71002 GOUDREAU ALGOMA

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	DATA UNAVAILABLE						
FEB	DATA UNAVAILABLE						
MAR	DATA UNAVAILABLE						
APR	DATA UNAVAILABLE						
MAY	257	29	10	9	1	1	307
JUN	589	58	19	16	5	1	688
JUL	618	54	26	28	5	2	733
AUG	659	52	16	9	1	0	737
SEP	286	7	0	2	0	0	295
OCT	408	5	0	2	1	0	416
YEAR	2817	205	71	66	13	4	3176

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
71.9	0	0.0	0.0	0.0	0.0	5.1	9.8	15.4	20.1	59	1.6





ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE													UNITS - 0.01 PARTS/MILLION												
STATION - ASC NO 71038													LUCIE PIT ALGOMA ORE WAWA												
MONTH - MAR 77																									
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	***	***	***	0	0	0	15	0	0	0	26	2
2	17	0	0	12	4	4	5	0	0	0	0	0	0	19	60	111	0	0	5	13	0	0	0	0	10
3	9	11	21	35	26	41	32	15	19	11	10	10	4	2	0	0	0	0	0	0	0	0	0	0	0
4	0	0	3	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	2	12	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1
9	0	0	0	0	0	0	0	0	0	0	0	0	33	0	0	0	0	22	6	0	0	0	0	0	0
10	4	0	0	0	0	0	0	0	16	47	27	41	50	0	0	0	0	0	0	0	0	0	11	0	8
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	2	0	0	0	0	0	0	1
12	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	96	74	22	4	0	0	10
17	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	1
18	13	16	25	18	8	4	0	0	0	0	0	0	0	33	42	30	15	18	0	14	21	13	8	9	9
19	0	0	0	0	0	0	0	0	0	6	8	52	76	77	97	111	24	97	0	13	2	0	0	0	4
20	0	0	0	0	0	0	0	0	0	61	56	41	0	35	0	0	4	2	0	0	0	0	0	0	23
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	86	57	24	4	7	
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	8	6	6	4	6	16	0	0	0	0	0	0	0	2
28	0	0	0	0	0	0	22	***	***	***	***	0	0	0	0	0	0	0	0	0	0	0	0	0	1
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	37	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	6	35	2	
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	2	39	2	0	6	10	3
MEAN	3	1	2	2	1	2	1	1	1	4	3	5	5	6	7	10	2	6	4	8	3	1	1	3	3.5

PERCENTAGE OF DATA VALID - 99.2

PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LE-5 THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE											UNITS - 0.01 PARTS/MILLION														
STATION - ASC NO 71038											MONTH - APR 77														
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	****	0	25	4	26	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	16	25	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	91	124	95	83	78	61	52	34	30	15	9	2	0	16	25	8	0	109	117	79	43	11	41	37	7
16	104	72	110	96	60	50	54	44	140	180	165	110	73	114	130	171	49	4	22	85	86	130	52	55	62
17	64	38	33	37	25	19	17	17	19	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76	107	6	29	17	30	13	4	12
21	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
23	0	0	0	0	0	21	38	0	0	0	0	0	3	19	3	0	0	21	38	0	0	0	0	0	2
24	0	7	4	26	96	42	32	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	7	0	0	14	10	13	0	15	0	0	0	0	0	0	0	28	32	3	38	37	0	12	42	128	13
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
29	0	19	14	51	51	130	143	106	86	72	43	51	52	11	6	0	0	0	0	3	64	56	28	7	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	40	13	30	40	6	0	6	6	0	0	0	36
MEAN	10	10	9	11	12	13	11	9	19	16	12	7	11	12	14	25	13	12	10	12	14	13	8	4	12

POLLUTANT - SULPHUR DIOXIDE												UNITS - 0.01 PARTS/MILLION														
STATION - ASC NO 71038												MONTH - MAY 77														
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	0	0		0	0	0	0	7	32	4	0	27	11	0	13	0	0	0	0	0	0	0	0	0	0	4
2	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	32	5	112	77	59	31	17	0	15	
4	0	0	0	0	0	0	0	0	0	0	5	54	23	74	22	1	24	48	0	28	0	13	20	12	14	
5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	11	0	16	9	37	4	1	
6	10	19	***	***	0	0	0	0	0	0	0	0	***	0	0	0	0	0	0	0	0	0	0	0	0	0
7	***	0	0	0	0	0	0	0	0	0	0	7	2	0	0	0	0	0	9	26	19	0	7	0	3	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	55	34	0	0	7	6	3	5	
11	2	0	0	0	0	0	0	17	0	41	16	0	0	0	9	11	0	16	49	50	39	9	0	3	11	
12	41	0	0	0	5	11	6	1	1	45	28	4	0	0	0	0	0	7	3	0	0	0	0	0	6	
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	63	68	24	37	0	0	8	
15	6	5	0	0	0	0	0	0	0	0	28	36	3	0	47	22	0	0	0	0	0	0	0	0	6	
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	3	0	***	-	-	-	-	-	-	-	-	0	-	0	0	35	25	0	68	56	26	20	13	0	10	
19																***	***	***	***	***	***	***	***	***	***	
20												- DATA INVALID -														
21												- DATA INVALID -														
22												- DATA INVALID -														
23												- DATA INVALID -														
24												- DATA INVALID -														
25												- DATA INVALID -														
26												- DATA INVALID -														
27												- DATA INVALID -														
28												- DATA INVALID -														
29												- DATA INVALID -														
30												- DATA INVALID -														
31												- DATA INVALID -														
MEAN	4	1	0	0	0	1	0	1	2	7	5	6	2	7	4	4	6	9	21	18	10	8	4	3	5.2	

PERCENTAGE OF DATA VALID - 54.4 PERCENTAGE OF DATA INVALID - 44.2 PERCENTAGE OF DATA UNAVAILABLE - 1.3

- NOTES 1. "\*\*\*\*\*" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
 2. "-" INDICATES DATA IS UNAVAILABLE  
 3. "\*\*\*\*\*" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE															UNITS - 0.01 PARTS/MILLION											
STATION - ASC NO 71038															MONTH - JUN 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1																										
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										
13																										
14																										
15																										
16																										
17																										
18																										
19																										
20																										
21																										
22																										
23																										
24																										
25																										
26																										
27																										
28																										
29																										
30																										
MEAN	****	****	****	****	****	****	****	****	****	****	****	****	****	****	0	0	0	0	0	0	2	1	0	0	0	0.3

PERCENTAGE OF DATA VALID - 1.5 PERCENTAGE OF DATA INVALID - 1.8 PERCENTAGE OF DATA UNAVAILABLE - 96.7

- NOTES 1. "\*\*\*\*\*" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
 2. "-" INDICATES DATA IS UNAVAILABLE  
 3. "\*\*\*\*\*" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## UNITS 0.01 PARTS/MILLION

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
2.     "-" INDICATES DATA IS UNAVAILABLE  
3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
2. \*-\* INDICATES DATA IS UNAVAILABLE  
3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - ASC NO 71038 LUCIE PIT ALGOMA ORE WAWA

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	28	0.7	6	74
FEB	28	0.7	4	67
MAR	31	3.5	23	111
APR	27	12.3	86	191
MAY	17	5.2	15	112
JUN	0	0.3	****	2
JUL	24	7.1	32	199
AUG	6	8.0	22	93
YEAR	161	5.0	86	199

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

## MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - ASC NO 71038 LUCIE PIT ALGOMA ORE WAWA

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
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JAN	679	11	4	6	1	3	704
FEB	595	3	3	2	0	5	608
MAR	652	22	10	20	13	21	738
APR	513	19	10	24	22	78	666
MAY	330	17	8	18	15	17	405
JUN	11	0	0	0	0	0	11
JUL	486	39	12	13	17	36	603
AUG	137	10	3	20	9	10	189
YEAR	3403	121	50	103	77	170	3924

## FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	CONCENTRATIONS								MAX	ARITH MEAN
		10	30	FREQUENCY DISTRIBUTION. PERCENT							
				50	70	90	95	98	99		
67.3	0	0.0	0.0	0.0	0.0	10.4	33.3	71.5	99.8	199	5.0

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 71049 LAND REG OFFICE QUEEN ST. SAULT STE MARIE MONTH - JAN 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1																									
2																									
3																									
4																									
5																									
6	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	1	1	2	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	1	1	0	0	1	0	0	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1
10	1	1	1	14	10	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	2	1	1	1
12	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	1	1	1	2	2	1	1	2	1	****	2	2	2	3	3	2	3	2	3	3	3	3	2	3	2
14	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	2	2
15	2	2	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1
16	1	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
17	1	1	1	2	1	1	1	1	1	1	****	****	1	1	1	1	1	1	1	1	1	1	1	1	1
18	1	2	2	1	1	1	2	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1	1	1	****	****	1	1	1	1	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	1	2	1	1	****	1	1	1	1	1	1	0	1	2	1	0	0	0	1
22	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	1	1	1	1
23	2	1	1	2	1	2	2	1	2	1	2	1	1	1	2	2	2	2	2	2	2	2	1	1	2
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	0	1	0	0	1
25	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	1	1	0	0	0	0	0	0	0
26	0	0	0	0	0	1	1	1	2	****	1	1	0	0	1	1	1	2	2	1	0	0	1	2	1
27	0	0	0	0	1	0	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
28	1	1	1	1	2	1	1	1	1	1	****	****	1	0	0	1	3	1	0	0	0	0	0	0	1
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0
MEAN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8

PERCENTAGE OF DATA VALID - 84.4

PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE - 14.5

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 71049 LAND REG OFFICE QUEEN ST. SAULT STE MARIE MONTH - FEB 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0
2	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	0	0	1	1	1	1	1	0
3	1	1	1	1	0	0	0	0	0	0	0	0	****	1	1	2	2	1	0	0	****	0	0	0	1
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	1	0	0	0	0
6	0	0	0	1	1	1	1	0	0	0	0	1	3	3	3	1	0	0	0	0	1	2	2	2	1
7	1	1	1	0	0	1	1	1	2	2	1	****	****	****	****	****	****	****	****	****	****	****	****	****	****
8																									
9																									
10	****	****	****	****	****	****	****	****	****	****	2	2	2	2	2	2	2	2	2	2	3	3	3	3	****
11	4	3	3	3	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
12	1	1	2	2	2	2	2	2	2	2	2	2	3	4	4	4	3	3	2	3	2	2	2	2	2
13	2	2	2	2	2	2	2	2	1	1	1	1	1	2	1	2	2	1	1	1	1	1	1	1	1
14	1	1	1	2	2	1	1	1	1	2	2	2	0	0	0	0	1	1	1	0	0	0	0	0	1
15	0	0	0	0	0	0	0	0	0	0	0	0	0	****	****	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	1	0	0	1	1	****	0	0	0	0	0	0	0	0	0	0	****	1	1	0
17	2	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2
18	2	2	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	1	1	1	1	1	0
20	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	****	0	0	0	1	1	1	2	0	1
21	1	0	0	1	1	1	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1
23	1	2	2	1	1	2	2	4	5	4	2	1	1	1	1	2	3	3	4	4	4	3	3	2	3
24	2	2	2	2	2	2	1	1	2	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	2
25	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	2	2	2	2	2	1
26	1	1	1	2	2	1	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1
28	1	1	1	1	2	1	2	1	1	1	1	****	****	****	****	****	2	1	2	2	2	2	2	1	1
MEAN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

PERCENTAGE OF DATA VALID - 86.8

PERCENTAGE OF DATA INVALID - 13.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY



ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 71049 LAND REG OFFICE QUEEN ST. SAULT STE MARIE MONTH - MAY 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1																									
2	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
3	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	0	1	1	1	1	1	1	1
4	2	2	2	2	2	2	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0
12	1	1	2	1	1	1	1	1	1	2	2	1	2	2	2	1	1	1	1	1	0	0	0	1	1
13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0
21	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	1	2	1	1	0	0	0	1
26	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1
27	2	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1
28	0	0	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	0
30	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0	0	0	1	0
31	1	1	1	1	1	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0	0	1
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3

PERCENTAGE OF DATA VALID - 93.0

PERCENTAGE OF DATA INVALID - 5.4

PERCENTAGE OF DATA UNAVAILABLE - 1.6

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 71049 LAND REG OFFICE QUEEN ST. SAULT STE MARIE MONTH - JUN 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	1	1	1	1	1	1	1	1	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
2	****	****	****	****	****	****	****	****	****	****	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	1	1	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	1	1	1	1	1	1	0	0
15	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0
16	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0
22	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0
24	1	1	1	1	1	1	1	1	1	2	1	****	****	****	****	****	****	****	****	****	****	****	****	****	****
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3

PERCENTAGE OF DATA VALID - 59.6

PERCENTAGE OF DATA INVALID - 5.4

PERCENTAGE OF DATA UNAVAILABLE - 35.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY









MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 71049 LAND REG OFFICE QUEEN ST. SAULT STE MARIE

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	26	0.8	2	14
FEB	24	1.0	3	5
MAR	19	1.4	3	6
APR	11	0.6	2	3
MAY	28	0.3	2	3
JUN	16	0.3	1	2
JUL	28	0.1	1	2
AUG	13	0.0	0	3
SEP	16	0.2	1	2
OCT	27	0.5	2	5
NOV	27	0.7	3	9
DEC	31	1.8	4	15
YEAR	266	0.7	4	15

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 71049 LAND REG OFFICE QUEEN ST. SAULT STE MARIE

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	626	1	1	0	0	0	628
FEB	582	1	0	0	0	0	583
MAR	456	5	0	0	0	0	461
APR	257	0	0	0	0	0	257
MAY	692	0	0	0	0	0	692
JUN	429	0	0	0	0	0	429
JUL	675	0	0	0	0	0	675
AUG	329	0	0	0	0	0	329
SEP	427	0	0	0	0	0	427
OCT	687	1	0	0	0	0	688
NOV	655	5	0	0	0	0	660
DEC	714	14	0	2	0	0	730
YEAR	6529	27	1	2	0	0	6559

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
74.9	0	0.0	0.0	0.0	0.5	1.5	2.0	2.9	3.5	15	0.7















## MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - 'E NO 75016 VERNER PATROL YARD DOT VERNER

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	1.3	4	14
FEB	26	0.8	2	22
MAR	27	0.5	2	22
APR	30	0.3	2	5
MAY	31	0.5	2	15
JUN	29	0.9	2	12
JUL	31	1.0	2	8
AUG	29	0.6	2	10
SEP	30	0.2	2	12
OCT	31	0.1	1	5
NOV	30	0.2	1	6
DEC	31	0.7	3	9
YEAR	356	0.6	4	22

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

## MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - 'E NO 75016 VERNER PATROL YARD DOT VERNER

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	717	20	3	0	0	0	740
FEB	623	13	2	0	0	0	640
MAR	646	11	0	3	0	0	660
APR	717	2	0	0	0	0	719
MAY	734	9	0	1	0	0	744
JUN	692	8	2	0	0	0	702
JUL	741	3	0	0	0	0	744
AUG	711	11	0	0	0	0	722
SEP	715	4	1	0	0	0	720
OCT	741	1	0	0	0	0	742
NOV	716	1	0	0	0	0	717
DEC	727	16	0	0	0	0	743
YEAR	8480	99	8	6	0	0	8593

## FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
98.1	0	0.0	0.0	0.0	0.2	1.4	2.0	3.4	4.6	22	0.6















## MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 75020 TEACHERS COLLEGE 1ST AVE NORTH BAY

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	24	1.2	4	12
FEB	28	1.2	4	13
MAR	29	0.5	2	9
APR	30	0.3	1	9
MAY	26	0.6	2	6
JUN	30	1.2	2	7
JUL	31	0.3	2	7
AUG	29	0.4	1	7
SEP	29	0.4	1	6
OCT	29	0.6	2	7
NOV	29	0.5	2	6
DEC	15	0.4	1	6
YEAR	329	0.6	4	13

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

## MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 75020 TEACHERS COLLEGE 1ST AVE NORTH BAY

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	559	30	1	0	0	0	590
FEB	640	30	1	0	0	0	671
MAR	705	12	0	0	0	0	717
APR	704	6	0	0	0	0	710
MAY	629	5	0	0	0	0	634
JUN	716	1	0	0	0	0	717
JUL	742	2	0	0	0	0	744
AUG	712	4	0	0	0	0	716
SEP	705	2	0	0	0	0	707
OCT	712	4	0	0	0	0	716
NOV	707	1	0	0	0	0	708
DEC	371	1	0	0	0	0	372
YEAR	7902	98	2	0	0	0	8002

## FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
91.3	0	0.0	0.0	0.0	0.3	1.5	2.2	3.5	4.4	13	0.6













MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77001 PENAGE SUDBURY AIRSHED

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.4	5	25
FEB	26	0.1	1	7
MAR	31	0.3	3	17
APR	28	0.7	9	71
MAY	31	0.2	2	17
JUN	30	0.3	3	10
JUL	31	0.1	3	23
AUG	30	0.2	4	57
SEP	30	0.4	6	45
OCT	31	0.2	3	20
NOV	30	0.4	7	42
DEC	31	0.2	2	16
YEAR	360	0.3	9	71

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77001 PENAGE SUDBURY AIRSHED

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	726	11	2	3	0	0	742
FEB	630	1	0	0	0	0	631
MAR	726	12	4	1	0	0	743
APR	658	18	3	5	2	2	688
MAY	731	7	4	1	0	0	743
JUN	701	15	0	0	0	0	716
JUL	739	3	1	1	0	0	744
AUG	729	0	1	1	0	1	732
SEP	707	4	2	1	2	2	718
OCT	736	4	1	3	0	0	744
NOV	700	10	3	2	2	1	718
DEC	740	3	0	1	0	0	744
YEAR	8523	88	21	19	6	6	8663

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
98.9	0	0.0	0.0	0.0	0.0	0.0	0.5	3.2	7.0	71	0.3



## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77009

BURWASH SUDBURY AIRSHED

MONTH - JAN 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	0	2	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	1	2	2	1	1
2	2	2	1	0	2	1	2	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	1	1	1
3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	7	6	9	10	11	10	8	7	6
6	5	4	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	5	7	9	1	0	1	0	0	1
8	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2	2	0	2	1	0	0
9	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	1	1	0	1	1	0	0	0
10	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	8	0	0	0	1
11	0	0	0	0	1	3	5	3	0	0	1	1	0	0	0	0	0	0	1	0	0	1	1	1	1
12	0	0	0	0	1	2	1	1	1	0	0	1	0	5	6	0	0	0	0	1	1	1	1	0	1
13	1	1	1	1	2	2	1	0	0	1	1	0	0	0	0	0	0	0	1	1	1	0	0	0	1
14	0	0	1	2	2	2	1	2	2	1	1	2	0	1	1	0	0	1	0	0	0	0	0	0	1
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0
17	0	0	0	0	0	0	0	0	0	3	7	0	3	3	3	1	2	3	2	2	4	5	6	6	2
18	6	5	4	2	2	1	1	1	1	0	0	-	1	1	0	0	0	2	0	0	0	0	0	0	1
19	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	1	1	3	4	3	1	0
20	0	2	1	1	0	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
21	0	0	1	1	1	1	2	1	0	0	0	2	3	1	0	0	1	1	1	0	0	0	0	0	1
22	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	1	0	0	1	1	1	0
23	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	2	0	0	0	0	0	0	0
24	1	1	1	1	2	2	2	2	3	3	3	0	0	0	0	0	0	0	0	0	1	0	0	1	1
25	0	0	0	0	0	0	0	0	0	0	2	1	2	3	5	5	3	1	0	4	4	4	1	2	0
26	0	1	0	0	1	0	1	1	0	1	4	3	1	2	1	0	0	0	0	0	0	0	0	0	1
27	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	6	10	7	3	1	0	0	0	0	1
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	1	1	0	0	0	1	1	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0.7

PERCENTAGE OF DATA VALID - 99.9

PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*-\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77009

BURWASH SUDBURY AIRSHED

MONTH - FEB 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	2	1	0	1	1	6	0	0	0	2	14	2	0	1	2	2	4	6	2
2	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	1	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	1	1	2	1	1	6	1	8	10	0	18	6	2	15	14	14	1	0	0	0	4	0
5	0	0	0	0	1	0	14	7	0	2	6	3	1	2	1	0	0	0	0	0	0	0	0	0	4
6	0	0	0	0	0	1	0	0	0	1	1	2	3	8	9	13	6	4	1	0	0	1	0	0	2
7	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	4	8	6	7	6	3	0	0	1	2
8	0	1	1	1	0	0	1	0	0	0	0	1	0	1	1	0	1	0	0	1	1	1	2	1	1
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
10	1	0	0	0	1	1	1	0	1	0	0	0	0	0	1	1	****	2	3	4	3	2	1	0	1
11	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	1	1	2	4	1	1	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
15	5	10	16	0	0	0	0	0	0	0	0	1	0	1	5	10	2	0	1	0	2	0	1	1	2
16	0	0	1	0	1	0	0	0	0	0	0	0	1	1	16	13	1	3	4	2	1	0	0	0	2
17	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	2	5	2	0	5	1	0	3	6	1	2	15	6	0	0	0	2	4	1	3	0	0	0	2
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1	0	1	0
21	1	0	0	0	2	2	2	2	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
22	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	1	2	1	0	0	0	0	1	0	0
23	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	1	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	1	1	0	0	0	1	0	0	1	1	1	1	2	2	2	2	1	1	1	1	0	0	1	0.8

PERCENTAGE OF DATA VALID - 99.9

PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*-\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE													UNITS - 0.01 PARTS/MILLION													
STATION - NE NO 77009													MONTH - MAR 77													
BURWASH SUDBURY AIRSHED																										
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	5	9	11	5	3	4	5	5	2	0	2
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	2	1	1	0	11	5	0	0	0	0	0	0	0	0	0	0	1
8	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	1	0	1	0	0	0	0
9	2	1	1	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	1	0	0	0	0	0	0	1	****	0	1	1	1	2	3	3	3	3	3	3	3	3	2	1	
11	1	1	1	1	1	1	1	1	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	1	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	2	2	2	2	2	2	2	1	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	0	0	1	0	0	0	0	0	0	0	0	9	6	0	0	0	0	5	5	0	0	0	0	0	1	
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	0	1	3	6	3	1	
21	0	0	0	0	0	0	0	0	0	0	4	1	1	2	0	0	0	0	3	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	0	0	0	0	0	0	0	6	11	12	12	4	0	0	0	0	0	0	0	1	1	1	0	1	2	
26	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5	5	2	0	0	1	
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	0	0	0	0	0	0	0	0	0	
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MEAN	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0	1	1	1	1	1	1	1	0	0	0.4	

PERCENTAGE OF DATA VALID - 99.7 PERCENTAGE OF DATA INVALID - 0.3 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
 2. \*\* INDICATES DATA IS UNAVAILABLE  
 3. \*\*\*\*\* INDICATES LE.S THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE														UNITS - 0.01 PARTS/MILLION											
STATION - NE NO 77009														MONTH - APR 77											
BURWASH SUDBURY AIRSHED																									
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	1	2	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
3	1	1	2	4	1	2	1	7	8	1	11	28	2	2	1	0	0	0	3	3	2	2	2	2	4
4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2	1	0
6	6	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	1	1
7	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	4	26	1	0	0	0	0	0	0	0	0	0	0	1
9	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	1	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5	1
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0
13	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	0	0	1	1	1	0
14	1	1	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0
15	1	1	1	1	1	1	1	1	2	8	2	0	1	3	2	1	0	0	0	0	1	2	1	1	1
16	1	1	1	2	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	1
17	1	1	1	1	1	2	1	1	0	0	0	0	2	2	2	0	0	0	0	0	0	1	2	2	1
18	2	2	1	1	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	2	2	3	3	4	1
19	2	2	2	2	2	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
20	3	3	2	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	1	0
26	1	1	1	1	2	2	2	1	3	4	25	19	11	7	5	1	1	0	0	0	0	0	0	0	4
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	0	
28	3	0	1	0	0	0	0	0	0	0	3	3	0	0	0	3	6	11	27	13	4	0	0	0	3
29	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	1	1	1	1	1	1	0	1	1	0	1	2	1	1	0	0	0	0	1	1	1	1	1	1	0.7

PERCENTAGE OF DATA VALID - 100.0 PERCENTAGE OF DATA INVALID - 0.0 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
 2. \*\* INDICATES DATA IS UNAVAILABLE  
 3. \*\*\*\*\* INDICATES LE.S THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77009

BURWASH SUDBURY AIRSHED

MONTH - MAY 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	1	1	1	2	1	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	1
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	17	10	2	0	0	0	1	1	0	2
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	3	0
5	3	3	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	21	0	0	0	0	1	0	1
7	0	0	0	21	3	0	0	2	3	3	0	2	11	39	12	1	0	0	0	0	0	0	0	0	4
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	2	0	0	0	0
9	10	5	8	8	6	8	12	7	0	0	1	2	4	3	2	2	2	3	0	0	1	6	0	0	4
10	0	0	0	0	0	0	0	8	11	0	****	0	1	3	4	3	3	2	0	0	1	2	2	2	2
11	1	1	1	1	1	1	1	0	0	7	3	3	6	6	5	0	0	0	0	0	0	0	0	0	2
12	0	0	0	0	0	0	0	0	0	3	0	0	0	1	1	1	1	1	1	0	0	1	1	0	0
13	1	0	0	0	0	0	0	0	0	0	4	3	4	4	2	0	0	1	0	0	2	2	1	1	1
14	2	2	0	0	0	0	0	0	0	0	0	0	1	1	2	2	3	2	0	0	2	2	1	1	1
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	1	1	1	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	1	2	2	2	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
19	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	2	3	3	3	1
20	0	0	1	1	0	0	2	2	0	0	0	0	1	1	0	0	0	0	0	2	3	0	2	0	1
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	1	3	4	6	4	4	2	0	1	0	0	0	0	0	0	0	0	1	2	2	2	2	2	2	2
26	1	1	1	1	1	1	2	2	2	1	0	0	0	0	0	2	3	14	2	1	1	1	2	2	2
27	2	2	1	1	1	1	1	0	0	5	0	0	3	0	0	0	0	0	0	0	0	2	2	2	1
28	3	0	0	0	1	2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	3	3	0
31	1	1	1	2	3	1	0	1	0	0	0	0	0	0	0	0	0	1	1	2	3	3	2	1	1
MEAN	1	1	1	2	1	1	1	1	1	1	0	0	1	2	1	1	1	1	0	0	1	1	1	1	0.9

PERCENTAGE OF DATA VALID - 99.7

PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77009

BURWASH SUDBURY AIRSHED

MONTH - JUN 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
2	5	12	7	4	10	9	3	0	5	3	3	2	1	1	0	0	0	0	0	0	0	0	2	1	3
3	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
5	2	2	1	1	2	2	1	0	0	3	2	6	1	0	0	0	0	1	1	0	0	1	15	2	2
6	1	2	4	3	1	3	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	2
7	5	13	10	2	1	2	2	5	2	0	2	1	0	0	0	0	0	2	4	2	1	0	0	0	1
8	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	0	1	1	2	2	1
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	3	3	3	3	3	3	1
11	1	1	1	1	1	2	2	1	0	0	0	0	0	0	0	0	0	1	1	1	2	5	4	0	1
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	5	5	10	14	10	15	7	5	5	5	2	2	2	4
15	2	2	2	2	2	2	0	0	0	0	0	0	0	0	1	2	2	3	3	2	3	4	4	4	2
16	3	4	2	3	3	3	3	2	2	2	2	2	2	2	2	3	3	4	5	5	6	4	4	3	3
17	3	2	2	3	3	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
18	3	3	1	1	2	2	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	3	1	0	1	0	0	0	0	0	0	1	0	0	1	0
21	0	0	0	1	1	1	4	4	2	0	0	3	6	4	9	5	3	0	1	0	0	0	0	0	2
22	2	2	1	2	1	1	3	0	0	7	2	3	3	3	7	26	14	22	3	2	2	3	3	3	5
23	4	4	3	2	3	5	2	1	0	2	2	1	1	1	0	0	0	2	2	3	3	4	3	2	2
24	3	3	1	3	2	2	2	2	2	3	2	2	3	3	2	2	2	2	2	2	1	2	2	1	2
25	2	2	2	1	1	2	1	1	2	3	2	0	0	1	3	0	0	1	6	3	3	2	2	2	2
26	1	1	3	3	3	3	2	2	3	9	14	1	0	0	0	0	3	4	3	4	3	2	1	2	3
27	2	1	2	2	3	3	0	0	0	0	0	2	2	3	3	3	3	2	3	2	2	3	2	2	2
28	3	5	2	2	2	1	2	2	2	2	2	2	3	3	4	4	4	4	4	4	2	2	3	3	3
29	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	1
30	1	1	1	1	1	1	1	1	1	2	2	3	2	2	3	3	3	4	2	2	2	2	2	2	2
MEAN	2	2	2	1	1	2	1	1	1	1	1	2	1	1	2	2	2	2	2	2	2	2	2	1	1.5

PERCENTAGE OF DATA VALID -100.0

PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY



ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

		POLLUTANT - SULPHUR DIOXIDE										UNITS - 0.01 PARTS/MILLION														
		STATION - NE NO 77009										BURWASH SUDBURY AIRSHED														
												MONTH - SEP 77														
HOUR	DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	2	0	0	0	0	0	0	0	0
2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	17	8	3	2	1	0	0	0	2
4		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6		0	0	0	0	0	0	0	0	0	0	0	6	6	1	0	2	0	0	0	0	0	0	0	0	1
7		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9		0	0	0	0	0	0	0	0	0	0	0	0	****	****	0	0	0	0	0	0	0	0	0	0	0
10		0	0	0	0	0	0	0	0	0	0	0	10	1	6	2	15	8	3	1	0	0	0	0	1	2
11		1	0	0	0	0	0	0	0	0	4	4	5	0	0	0	0	0	0	0	0	0	0	0	0	1
12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	1	1	1	1	1
15		1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	8	8	4	3	3	2	2	2	2
19		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20		0	0	0	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0
21		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27		0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	0	0	0	0	0	0	0	0
28		0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	10	1	0	0	0	0	0	0	0	1
29		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN		0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	1	1	0	0	0	0	0	0	0.3

PERCENTAGE OF DATA VALID - 99.6

PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "\*\*\*\*\*" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-\*" INDICATES DATA IS UNAVAILABLE

3. "\*\*\*\*\*" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

		POLLUTANT - SULPHUR DIOXIDE										UNITS - 0.01 PARTS/MILLION																		
		STATION - NE NO 77009					BURWASH SUDBURY AIRSHED					MONTH - OCT 77																		
HOUR	DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN				
1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	0	0	0				
4		0	0	0	0	0	0	0	0	0	0	8	5	6	0	0	0	0	0	0	0	0	0	0	0	1				
5		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
6		0	0	0	0	0	0	0	0	0	0	5	0	9	1	0	0	0	0	0	0	0	0	0	0	1				
7		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
8		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
10		0	0	0	0	0	0	0	0	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
11		0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0				
12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
13		DATA INVALID																0	0	0	0	0	0	0	0	0	0	0	0	0
14		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
15		0	0	0	0	0	0	0	0	0	1	0	0	0	0	11	4	3	8	4	0	0	0	0	0	1				
16		0	0	2	1	0	0	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
17		0	0	0	0	0	0	0	3	5	3	5	0	56	11	3	0	0	5	3	2	1	0	0	0	4				
18		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
19		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0				
20		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
21		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
22		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0				
23		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
24		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
25		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
26		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
27		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0				
28		0	0	0	0	0	0	0	0	0	3	15	1	0	0	0	0	0	2	2	0	0	0	0	0	1				
29		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
30		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
31		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
MEAN		0	0	0	0	0	0	0	0	0	0	2	0	3	1	1	0	0	1	0	0	0	0	0	0	0.0				

		POLLUTANT - SULPHUR DIOXIDE										UNITS - 0.01 PARTS/MILLION														
		STATION - NE NO 77009 BURWASH SUDBURY AIRSHED										MONTH - NOV 77														
HOUR DAY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1		0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2		0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
3		0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4		0	0	0	0	0	0	0	****	1	1	0	0	0	0	1	1	3	2	1	0	0	0	0	0	0
5		0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6		0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
7		0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8		0	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12		0	0	0	0	0	0	0	0	0	0	0	0	2	3	3	5	3	0	0	0	1	4	4	1	1
13		2	3	2	2	1	1	0	0	0	0	0	0	0	0	3	6	5	4	3	2	2	2	4	4	2
14		6	6	6	5	4	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
15		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18		0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	1	0	0	0	0	0
19		0	0	0	0	0	0	0	0	0	0	0	4	27	19	5	0	1	5	3	4	3	2	1	0	0
20		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
21																										
22		****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	0	0	0	0	0	0	0	0	0	0
23		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****
24																										
25		-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	****
26		2	16	9	3	6	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
27		1	0	0	0	0	0	0	0	0	0	2	2	1	1	1	****	****	****	****	****	****	****	****	****	****
28		****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
29		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN		0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.4

PERCENTAGE OF DATA VALID - 85.0

PERCENTAGE OF DATA INVALID - 8.5

PERCENTAGE OF DATA UNAVAILABLE - 6.5

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

		POLLUTANT - SULPHUR DIOXIDE											UNITS - 0.01 PARTS/MILLION														
		STATION - NE NO 77009 BURWASH SUDBURY AIRSHED											MONTH - DEC 77														
HOUR DAY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4		0	0	0	0	0	0	0	0	0	0	0	0	2	15	29	1	7	10	7	4	1	1	0	0	3	
5		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6		0	0	0	0	0	1	2	0	0	0	0	0	0	4	5	1	0	4	4	2	2	1	0	0	1	
7		0	0	0	0	0	0	0	***	0	0	0	0	0	3	23	14	4	1	1	0	0	0	0	0	2	
8		0	0	0	0	2	3	2	***	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9		0	0	0	0	0	0	0	0	0	0	0	2	1	3	0	0	0	0	0	0	0	0	0	0	0	
10		1	1	2	0	0	0	0	***	0	0	1	1	2	10	***	***	***	***	***	0	0	0	0	0	0	1
11		0	0	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
12		0	2	2	0	0	0	0	***	***	***	***	***	***	***	***	0	0	0	0	0	0	0	0	0	0	
13		***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	0	0	0	0	0	0	0	0	0	
14		0	0	0	0	0	0	***	0	0	0	0	0	0	4	7	2	0	0	0	0	0	0	0	0	1	
15		0	0	0	0	0	0	0	***	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16		0	0	0	0	0	0	0	***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17		0	0	0	0	0	0	0	***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18		0	0	0	0	0	0	0	***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19		***	0	0	0	0	***	***	0	0	0	0	0	0	0	0	0	0	0	0	0	***	***	***	***	0	
20		***	***	***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21		0	0	0	0	0	0	0	***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23		0	0	0	0	0	0	0	***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24		0	0	0	0	0	0	0	***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25		0	0	0	0	0	0	0	***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26		0	0	0	0	0	0	0	***	0	0	0	0	0	2	11	16	0	1	3	5	8	5	5	3	0	
27		4	3	2	1	0	0	0	***	0	0	0	0	0	2	16	12	10	3	2	2	2	1	1	1	3	
28		0	0	0	0	0	0	0	***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29		0	0	0	0	0	0	0	0	0	0	0	0	***	***	***	***	***	***	***	***	***	***	***	***	***	
30		0	0	0	0	0	0	0	***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31		0	0	0	0	0	0	0	***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MEAN		0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	2	1	1	1	0	0	0	0	0	0.5	

PERCENTAGE OF DATA VALID - 86.8

PERCENTAGE OF DATA INVALID - 13.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77009 BURWASH SUDBURY AIRSHED

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HR MAXIMUM	MAXIMUM READING
JAN	31	0.7	3	11
FEB	28	0.8	4	18
MAR	31	0.4	2	12
APR	30	0.7	4	28
MAY	31	0.9	4	39
JUN	30	1.5	5	28
JUL	28	1.0	3	21
AUG	29	0.1	1	13
SEP	30	0.3	2	17
OCT	27	0.3	4	56
NOV	24	0.4	3	27
DEC	27	0.5	3	29
YEAR	346	0.6	5	56

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77009 BURWASH SUDBURY AIRSHED

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	714	28	1	0	0	0	743
FEB	637	23	6	5	0	0	671
MAR	723	14	5	0	0	0	742
APR	702	9	4	2	3	0	720
MAY	713	18	6	4	1	0	742
JUN	680	31	5	3	1	0	720
JUL	647	15	10	1	0	0	673
AUG	693	5	1	0	0	0	699
SEP	701	12	1	3	0	0	717
OCT	639	11	2	1	0	1	654
NOV	598	11	0	2	1	0	612
DEC	626	12	3	4	1	0	646
YEAR	8073	189	44	25	7	1	8339

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
95.2	0	0.0	0.0	0.0	0.0	1.5	2.8	5.8	9.7	56	0.6

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - NE NO 77010		CALLUM SUDBURY AIRSHED												MONTH - JAN 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	1	1	2	0	0	1	0	0	1	3	3	1	1	1	1	1	1	0	1	0	1	0	0	0	1
4	0	0	0	0	1	0	0	0	2	2	1	1	2	2	2	1	0	1	1	1	1	1	1	1	1
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	1	0	0	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	1	0	0	1	2	1	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	2	1	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	10	12	0	2	13	3	0	1	0	1	1	1	1	1	1	0
12	0	0	0	1	1	0	0	0	0	0	0	0	4	34	0	1	3	3	2	1	1	1	1	1	2
13	4	6	5	4	2	1	2	2	1	1	1	1	1	1	0	0	1	1	1	0	0	0	0	0	1
14	0	0	0	0	0	0	1	2	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1
15	0	1	1	1	1	1	1	1	1	3	1	0	0	1	1	1	1	0	0	1	2	1	1	1	1
16	0	2	4	1	4	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
17	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	1	1	0	0	0	2	0	0	4	5	3	3	0	0	0	0	0	0	0	0	0	0	0	1
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	1	4	2	2	1	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	2	2	1	1	1	1	1
24	0	2	2	3	3	3	2	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	3
25	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
26	0	0	0	0	0	0	1	1	1	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	3	2	0	0	0	0	1
29	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
30	1	1	0	0	0	0	1	1	2	2	3	2	0	0	0	0	0	0	0	0	0	0	0	0	1
31	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	4	4	2	0	4	13	0	0	0	1
MEAN	0	1	1	0	1	1	0	0	1	1	1	1	1	2	0	1	1	1	1	1	1	0	0	0	0.7

PERCENTAGE OF DATA VALID - 99.9

PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE															UNITS - 0.01 PARTS/MILLION																			
STATION - NE NO 77010															CALLUM SUDBURY AIRSHED										MONTH - FEB 77									
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN									
1	0	11	24	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2									
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1	2	0									
3	1	0	0	1	1	1	1	2	2	2	2	2	4	1	2	0	1	0	0	0	1	0	1	1	0									
4	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0									
5	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0									
6	1	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0									
7	5	0	0	0	0	0	0	0	0	0	0	0	0	14	16	3	0	0	2	5	6	6	3	1	3									
8	1	1	1	1	1	1	1	1	0	0	0	2	1	1	2	2	3	2	2	2	2	2	2	2	1									
9	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	2	2	1	1	1	2	2	2									
10	2	3	1	2	1	1	1	1	1	1	1	1	2	1	2	2	2	4	5	5	4	5	3	2	2									
11	3	2	3	3	2	3	2	3	2	2	2	2	16	5	3	4	12	6	6	4	2	1	1	2	4									
12	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
16	0	0	2	0	0	1	1	2	3	4	1	12	3	5	5	19	0	0	0	0	0	0	0	0	2									
17	1	1	1	1	1	1	1	1	1	1	3	3	0	0	0	0	0	0	0	0	0	1	1	1	1									
18	1	2	2	2	2	2	1	2	2	3	3	4	4	4	3	3	3	3	3	4	2	2	2	1	3									
19	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1										
20	0	1	1	1	1	1	1	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1									
21	0	0	0	0	0	0	1	1	1	1	1	1	2	1	1	1	1	1	1	1	0	1	1	1	1									
22	0	1	1	1	2	2	2	1	1	1	3	1	***	0	0	0	0	0	0	0	0	0	0	0	1									
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
26	1	2	4	3	4	2	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1									
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	10	0	0	1										
28	0	2	0	0	1	0	0	0	1	0	2	0	2	1	2	0	0	0	0	0	0	1	0	0	1									
MEAN	1	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	2	1	1	1	1	1	1	1	1.0									

PERCENTAGE OF DATA VALID - 99.9

PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY













MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77010 CALLUM SUDBURY AIRSHED

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.7	3	34
FEB	28	1.0	4	24
MAR	31	0.8	3	32
APR	27	0.7	4	21
MAY	30	0.7	3	37
JUN	30	0.8	5	54
JUL	31	0.7	6	45
AUG	31	1.0	5	23
SEP	30	0.7	6	41
OCT	31	1.1	6	44
NOV	30	1.3	3	17
DEC	31	1.4	6	59
YEAR	361	0.9	6	59

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77010 CALLUM SUDBURY AIRSHED

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	734	5	3	0	1	0	743
FEB	648	15	4	4	0	0	671
MAR	723	12	3	4	1	0	743
APR	638	17	1	4	0	0	660
MAY	701	20	3	6	1	0	731
JUN	674	32	6	6	0	1	719
JUL	708	17	4	7	2	1	739
AUG	689	33	10	7	0	0	739
SEP	690	12	5	5	0	1	713
OCT	720	7	5	3	1	1	737
NOV	697	19	1	1	0	0	718
DEC	725	10	1	3	2	1	742
YEAR	8347	199	46	50	8	5	8655

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
98.8	0	0.0	0.0	0.0	0.3	1.7	2.9	7.5	11.9	59	0.9















MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77012 SKEAD SUDBURY AIRSHED

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.2	1	11
FEB	28	1.4	13	132
MAR	31	1.3	9	47
APR	30	2.7	15	74
MAY	31	2.0	12	84
JUN	30	1.0	9	73
JUL	31	2.2	11	128
AUG	31	3.8	34	116
SEP	30	0.6	6	47
OCT	25	3.1	30	107
NOV	30	1.5	11	85
DEC	30	0.4	2	36
YEAR	358	1.7	34	132

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77012 SKEAD SUDBURY AIRSHED

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	728	11	1	0	0	0	740
FEB	634	19	5	5	6	3	672
MAR	677	39	10	7	8	2	743
APR	631	33	14	16	12	14	720
MAY	657	35	13	28	6	5	744
JUN	676	25	7	7	2	3	720
JUL	657	38	8	19	15	4	741
AUG	635	34	16	20	17	22	744
SEP	694	8	5	6	4	1	718
OCT	556	13	11	15	6	19	620
NOV	627	25	4	6	3	8	673
DEC	704	21	1	2	1	0	729
YEAR	7876	301	95	131	80	81	8564

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
97.8	0	0.0	0.0	0.0	0.0	2.2	9.0	24.0	37.6	132	1.7









POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77013

HANMER SUDBURY AIRSHED

MONTH - JUL 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	3	0	4	5	3	4	4	1	0	0	0	4	0	0	0	0	0	0	1
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	20	***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7	0	0	0	0	0	0	0	0	6	10	23	33	23	13	0	0	3	19	0	0	2	3	2	0	0	6
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	0	1	0	0	6	5	11	10	0	0	6	11	6	2	0	0	0	0	0	0	0	2
11	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	0	0	0	0	0	1	0	0	2	0	0	0	1	1	1	3	9	1	5	5	3	1	2	0	1	
13	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	0	0	0	0	0	0	0	0	2	0	3	0	0	0	0	5	0	12	0	0	0	2	0	0	0	
15	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
16	0	0	0	0	1	2	2	4	6	4	4	2	0	0	0	0	0	0	0	0	0	0	0	0	1	
17	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
18	0	0	0	0	0	0	1	5	15	1	2	3	19	1	0	0	0	0	0	0	0	0	0	0	0	
19	0	0	0	0	0	0	0	0	***	0	0	0	0	0	0	0	0	0	1	1	2	11	0	0	1	
20	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
27	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28	0	1	0	0	1	0	0	0	0	5	22	30	13	14	6	0	0	3	1	1	1	0	0	0	4	
29	0	0	0	0	0	0	0	0	0	0	2	6	4	5	4	8	2	3	1	0	0	0	0	0	1	
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31	1	9	2	0	0	0	0	0	0	0	1	16	4	2	3	0	0	0	1	2	1	0	0	0	2	
MEAN	0	0	0	0	0	0	0	0	2	1	2	3	2	1	1	1	1	1	0	0	0	1	0	0	0.8	

PERCENTAGE OF DATA VALID - 99.7

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LEJ5 THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77013

HANMER SUDBURY AIRSHED

MONTH - AUG 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	13	38	32	19	10	8	0	0	0	0	0	0	0	5
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	1	2	2	3	2	2	2	0	2	1	1	0	0	3	10	11	0	0	0	0	0	0	0	0	2
8	0	0	0	0	0	0	0	0	1	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	7	2	2	2	1	
10	2	2	2	2	3	3	5	0	3	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	17	16	7	5	0	0	0	0	2
13	0	3	3	3	3	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	16	6	0	0	0	0	0	0	0	0	0	0	0	0	0	1
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	1	6	14	3	5	4	3	9	26	8	10	0	0	0	0	0	4
27	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	7	10	3	0	0	0	0	0	1
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	7	16	18	10	0	0	0	0	0	0	0	2
31	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	3	2	1	0	0
MEAN	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	2	3	1	1	0	0	0	0	0	0.7

PERCENTAGE OF DATA VALID - 99.6

PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LEJ5 THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - NE NO 77013		HANMER SUDBURY AIRSHED												MONTH - SEP 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	1	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	1	0
4	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	4	3	5	3	2	2	4	1
5	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	8	3	7	2	2	2	2	1	1
8	1	1	2	1	1	1	0	0	0	54	26	0	0	0	0	0	0	0	0	0	0	0	0	0	4
9	0	0	0	0	0	0	0	0	0	12	1	1	4	17	10	2	0	0	0	0	0	0	0	0	2
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	1	0	0	0	0	0	0	0	0	0	3	1	32	28	73	33	19	3	2	1	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	1	3	1	0	0	0	0	0	0	0	2	0	0
23	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	1	0	1	0	0	0	0	0	1	16	8	0	0	0	0	0	0	0	0	0	1
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	2	1	0	0	2	2	3	1	1	0	0	0	0	0	0	0.6

PERCENTAGE OF DATA VALID - 100.0

PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*-\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - NE NO 77013		HANMER SUDBURY AIRSHED												MONTH - OCT 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	1	0	0	1	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	3	1	1	6	3	0	0	0	0	0	0	0	0	1	4	2	18	25	33	36	11	2	2	1	1
13	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	2	18	25	33	36	11	2	2	1	1
14	0	0	0	0	0	0	0	0	0	0	6	2	0	13	13	12	16	3	0	0	0	0	0	0	3
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	28	27	15	14	10	6	4
18	3	2	1	1	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	1	36	1	1	2	0	20	54	19	1	1	1	0	0	0	6
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	3	7	5	6	4	3	4	3	1	1	2	5	3	0	2
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	2	1	6	32	14	3	4	7	6	4	4	2	1	1	0	4
30	0	0	0	0	0	0	0	0	0	0	1	15	41	0	0	0	0	0	0	0	0	0	0	0	2
31	1	8	2	2	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
MEAN	0	0	0	0	0	0	0	0	0	0	2	1	3	2	1	2	4	2	2	1	1	1	0	0	1.0

PERCENTAGE OF DATA VALID - 99.7

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*-\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

		POLLUTANT - SULPHUR DIOXIDE										UNITS - 0.01 PARTS/MILLION															
		STATION - NE NO 77013 HANMER SUDBURY AIRSHED										MONTH - NOV 77															
HOUR	DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
4		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6		0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0
7		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8		0	0	0	0	0	0	0	0	0	0	0	3	16	6	23	1	1	18	2	0	0	9	13	16	14	5
9		19	1	5	1	0	4	2	22	3	15	8	0	29	0	20	24	23	0	11	0	4	0	0	0	0	8
10		24	16	30	18	17	0	0	0	0	0	0	3	7	0	0	1	0	0	0	0	0	0	0	0	0	5
11		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14		1	1	3	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
15		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	3	5	6	1	0	1
16		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
17		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20		0	0	0	0	0	0	6	34	5	0	41	15	34	8	18	12	6	3	0	0	0	0	0	0	0	8
21		0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22		0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3	1	0	0	0	0	0	0	0	0	0
23		0	0	0	0	0	0	1	5	3	2	0	12	6	0	0	0	0	0	0	1	0	0	0	0	0	1
24		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	15	8	3	3	1	0	0	0	0	0	1
28		0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	7	10	11	8	5	6	5	6	5	4	4
29		4	3	3	3	3	3	3	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
30		1	1	1	1	1	2	2	2	1	1	3	49	0	0	0	24	5	0	0	0	0	0	0	0	0	4
MEAN		2	1	1	1	1	0	0	2	0	1	2	3	3	1	2	3	3	1	1	0	1	1	1	1	1	1.3

PERCENTAGE OF DATA VALID - 99.4

PERCENTAGE OF DATA INVALID - 0.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

		POLLUTANT - SULPHUR DIOXIDE										UNITS - 0.01 PARTS/MILLION															
		STATION - NE NO 77013 HANMER SUDBURY AIRSHED										MONTH - DEC 77															
HOUR	DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1		0	0	0	0	0	0	0	0	0	0	0	12	51	13	0	5	0	0	0	0	0	0	0	0	0	3
2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0
4		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	4	1	3	3	1	1
6		1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8		0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9		0	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11		1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	2	0	0
12		2	30	46	5	5	3	2	4	11	44	14	9	***	4	28	3	2	2	1	0	0	0	0	0	0	9
13		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14		0	0	0	0	0	0	0	0	0	0	0	1	1	3	3	0	0	0	0	0	0	0	0	0	0	0
15		1	1	2	2	2	2	3	2	2	2	3	2	1	1	0	0	0	0	0	0	0	0	0	0	2	1
16		4	10	6	4	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	2	10	4	1	2	1	1
17		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21		0	0	0	0	0	0	0	0	10	3	18	5	0	0	0	1	6	2	1	1	2	2	2	1	2	2
22		0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	1	3	1	0	0	0	0
23		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24		0	0	0	0	0	0	0	0	2	2	1	0	0	0	0	0	0	0	0	0	1	2	2	2	1	1
25		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26		0	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
27		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28		1	3	2	1	1	2	7	3	5	14	13	1	0	0	0	0	0	0	1	1	0	1	2	2	3	3
29		0	2	1	1	2	2	1	2	1	1	2	1	3	9	10	7	6	5	5	5	4	4	3	3	3	3
30		4	2	2	4	5	4	4	3	2	3	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	2
31		0	0	0	0	0	0	0	1	3	1	0	0	0	2	2	4	3	2	3	3	4	5	3	2	2	2
MEAN		0	2	2	1	1	1	1	1	1	2	2	1	2	1	1	1	1	0	0	1	1	1	1	1	1	1

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77013 HANMER SUDBURY AIRSHED

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	27	1.9	5	20
FEB	28	1.6	3	13
MAR	31	0.6	5	56
APR	30	2.0	18	94
MAY	31	1.4	16	65
JUN	14	0.6	2	31
JUL	31	0.8	6	33
AUG	31	0.7	5	38
SEP	30	0.6	8	73
OCT	31	1.0	6	54
NOV	30	1.3	8	49
DEC	31	1.0	9	51
YEAR	345	1.1	18	94

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77013 HANMER SUDBURY AIRSHED

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	640	27	2	3	0	0	672
FEB	657	11	3	0	0	0	671
MAR	714	13	4	9	1	1	742
APR	661	18	9	13	3	10	714
MAY	706	11	2	8	10	6	743
JUN	361	7	4	1	1	0	374
JUL	705	20	7	8	2	0	742
AUG	707	21	3	7	3	0	741
SEP	705	5	1	3	4	2	720
OCT	703	17	7	7	6	2	742
NOV	661	25	6	18	4	2	716
DEC	709	22	6	1	2	3	743
YEAR	7929	197	54	78	36	26	8320

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
95.0	0	0.0	0.0	0.0	0.0	2.0	3.8	11.7	19.4	94	1.1

POLLUTANT - SULPHUR DIOXIDE						UNITS - 0.01 PARTS/MILLION																							
STATION - NE NO 77014						RAYSIDE SUDBURY AIRSHED												MONTH - JAN 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN				
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
2	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	2	1	0	1	1	0	0				
3	1	1	1	0	0	0	0	1	1	0	0	1	1	1	2	1	0	0	0	0	0	0	2	3	1				
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
5	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0				
6	1	0	0	1	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0				
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0				
8	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	0	1	0	0	0	0	0	1				
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	5	6	6	2	1	2	2	0	1				
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	2	1	0	0	0	0	0	0	0				
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0				
12	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
13	1	2	0	0	0	0	0	1	1	2	2	2	2	18	3	0	0	3	3	4	5	6	3	3	3				
14	0	0	0	0	1	6	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1				
15	6	6	6	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1				
18	1	2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
19	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
23	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	2	8	9	8	7	0	0	0	2				
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	4	6	6	4	3	2	1				
25	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
26	0	0	0	0	0	0	0	0	0	0	1	3	1	1	1	0	0	0	0	0	0	0	0	0	0				
27	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
28	0	0	0	0	0	0	0	1	0	0	0	2	4	5	4	4	2	0	0	0	0	0	0	0	1				
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
MEAN	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1	1	1	1	0	0.4				

PERCENTAGE OF DATA VALID - 100.0

PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "\*\*\*\*\*" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "\*\*\*\*\*" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE						UNITS - 0.01 PARTS/MILLION																				
STATION - NE NO 77014						RAYSIDE SUDBURY AIRSHED						MONTH - FEB 77														
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	2	
10	0	0	0	0	0	0	0	0	0	0	0	0	1	3	1	3	4	5	0	2	2	3	4	2	1	
11	1	5	2	3	7	4	2	2	2	2	2	2	1	1	1	1	1	1	1	0	0	0	0	0	2	
12	0	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	
13	0	0	0	0	14	29	27	16	6	....	....	2	0	4	3	0	0	0	0	0	0	0	0	0	0	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	0	0	1	0	1	0	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
18	7	5	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	3	1	
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	2	4	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
24	0	0	0	0	0	0	5	16	7	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MEAN	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	

PERCENTAGE OF DATA VALID - 99.4

PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. "\*\*\*\*\*" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "\*\*\*\*\*" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77014

RAYSIDE SUDBURY AIRSHED

MONTH - MAR 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	13	6	4	10	6	2	5	4	1	3	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	0	2	1	1	1	1	1	1	2	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	1	1	1	1	1	2	3	2	2	5	11	13	14	11	35	17	14	31	29	19	27	23	16	11	12	
12	11	12	7	7	4	3	3	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	
13	0	0	0	0	0	0	0	0	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	0	0	0	0	0	1	1	1	2	2	2	2	2	2	2	0	0	0	0	0	0	1	1	1	1	
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	0	1	2	2	3	5	2	1	0	0	0	0	0	0	0	0	0	0	14	17	14	5	0	0	2	
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	0	0	0	1	
20	0	0	0	0	0	0	0	0	0	4	3	1	4	9	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	2	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	2	2	2	5	6	5	2	0	0	0	0	0	0	0	0	0	0	
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26	0	0	0	0	0	0	0	0	0	0	0	0	8	7	4	5	16	29	9	1	0	0	0	0	1	
27	1	2	1	4	1	1	2	0	0	2	1	1	4	4	0	0	0	0	0	0	0	0	0	0	0	
28	2	1	1	1	1	2	1	0	0	0	3	3	3	2	0	0	0	0	0	0	0	0	0	0	1	
29	0	0	0	0	0	0	0	0	2	3	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	
30	0	2	0	0	0	0	0	0	0	0	0	7	3	0	0	0	0	0	0	0	0	0	0	0	1	
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MEAN	0	1	0	1	0	0	0	0	0	1	1	1	2	1	2	1	2	1	2	1	1	1	1	0	0	1.0

PERCENTAGE OF DATA VALID - 100.0

PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77014

RAYSIDE SUDBURY AIRSHED

MONTH - APR 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	5	6	5	0	1	1	1	2	1	0	0	0	0	0	2	0	1
2	0	0	0	0	0	0	0	0	0	0	11	0	0	13	0	3	3	3	2	0	0	0	0	0	1
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	10	20	15	5	6	12	3	13	10	0	0	2	0	0	0	0	0	0	0	4
5	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
7	0	0	0	0	0	1	0	0	0	4	2	1	1	2	1	0	0	0	0	0	0	4	2	1	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	10	5	0	5	2	0	2	1	2	0	6	0	0	1	1	1
11	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	1	1	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	1	1	1	0	33	131	90	3	0	0	0	0	0	0	0	0	0	11
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	2	3	4	12	16	6	1	0	0	0	0	0	0	0	0	0	0	0	2
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	1	1	1	1	2	1	5	4	0	0	0	0	0	0	0	0	0	0	0.8

PERCENTAGE OF DATA VALID - 100.0

PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77014

RAYSIDE SUDBURY AIRSHED

MONTH - MAY 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0
19	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	1	0	0	0	0	0	1	4	4	8	2	0	0	0	0	0	0	0	0	0	1	0	0
21	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
22	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
23	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
27	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	12	6	2	1	0	1
28	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
30	0	0	1	1	0	0	0	0	0	0	0	0	0	3	13	14	9	3	2	0	0	0	1	1	2
31	0	0	0	1	0	1	0	2	1	0	0	0	1	2	1	1	21	0	0	0	0	2	0	0	2
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0.3

PERCENTAGE OF DATA VALID - 100.0

PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. --" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77014

RAYSIDE SUDBURY AIRSHED

MONTH - JUN 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	2	3	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	10	13	6	4	4	3	1	2	2	3	2	2	2	2	2
11	2	2	1	2	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1
12	1	1	1	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	1	1	1	2	1	2	1
13	2	1	1	1	1	1	1	2	1	1	1	1	1	2	1	1	5	11	10	4	2	2	1	0	2
14	10	1	1	1	1	1	0	0	1	2	2	0	3	3	2	1	0	0	0	1	0	0	0	0	1
15	1	0	0	0	0	0	2	1	2	1	1	1	0	0	1	2	1	2	2	1	2	2	2	3	1
16	2	0	2	2	2	2	2	2	1	0	0	0	1	1	1	2	1	2	3	5	4	3	2	2	2
17	3	3	2	2	1	2	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	2	1
18	2	1	3	3	2	2	2	2	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2
19	2	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	3	3	2	1	1	1	1	1	1	2	1	1	1	1	0	0	2	1	1	1	1	1
26	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1
27	0	2	0	2	2	3	3	1	1	1	1	1	2	0	0	1	1	1	1	1	1	1	1	1	1
28	3	2	2	1	2	2	6	4	1	2	2	2	1	1	1	1	1	2	2	3	2	2	2	2	2
29	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
30	0	0	0	1	1	1	1	1	1	2	1	0	1	2	1	2	4	5	5	2	2	2	3	1	2
MEAN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8

PERCENTAGE OF DATA VALID - 99.9

PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. --" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - NE NO 77014		RAYSIDE SUDBURY AIRSHED												MONTH - JUL 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	6	0	0	3	2	2	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	11	0	1	6	2	0	0	0	0
6	0	0	0	0	0	2	14	1	0	0	9	3	8	8	10	7	0	0	0	0	0	0	3	0	3
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10																									*****
11																									
12																									
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*****
14	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	0
15	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	1	1	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	7	0	3	0	0	0	0	0	5	5	5	5	5	5	5	5	5	3
19	0	1	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
22	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
27	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0
29	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	15	19	0	0	0	0	2
31	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	1	0	0.4

PERCENTAGE OF DATA VALID - 87.4 PERCENTAGE OF DATA INVALID - 0.1 PERCENTAGE OF DATA UNAVAILABLE - 12.5

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
 2. \*\* INDICATES DATA IS UNAVAILABLE  
 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE												UNITS - 0.01 PARTS/MILLION																							
STATION - NE NO 77014												RAYSIDE SUDBURY AIRSHED												MONTH - AUG 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN										
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0												
2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
3	0	1	2	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0										
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
6	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
7	0	0	0	0	0	0	0	0	0	0	0	0	5	5	0	0	0	0	0	0	0	0	1	0	0										
8	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1										
9	1	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0										
10	0	0	2	1	0	1	0	0	0	0	0	0	0	0	0	9	4	0	0	0	2	1	0	0	1										
11	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
16	0	0	1	0	0	0	0	0	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0										
17	1	0	0	1	0	1	0	1	1	1	1	2	2	1	1	1	1	8	1	1	1	1	1	1	1										
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
19	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	0	0	1	1	1	0	1	0	1	0										
20	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0										
21	0	0	0	3	4	4	3	4	2	2	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1										
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
26	0	0	0	0	0	0	0	1	1	2	2	2	1	1	1	1	1	2	1	1	1	2	1	1	1										
27	1	1	1	2	1	2	2	1	1	1	1	1	1	1	0	1	0	1	0	1	5	3	0	0	0										
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
30	0	0	0	0	0	0	0	0	0	2	0	0	1	4	3	0	3	17	8	0	0	0	0	0	2										
31	0	0	0	0	0	0	0	0	0	0	0	1	2	3	1	2	2	2	2	1	0	0	0	0	1										
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0.3										

PERCENTAGE OF DATA VALID - 100.0 PERCENTAGE OF DATA INVALID - 0.0 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
 2. \*\* INDICATES DATA IS UNAVAILABLE  
 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY



ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE												UNITS - 0.01 PARTS/MILLION													
STATION - NE NO 77014 RAYSIDE SUDBURY AIRSHED												MONTH - SEP 77													
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	1	2	2	2	2	15	49	36	26	19	9	6	2	2	2	7
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	1	1	0
5	0	1	3	2	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	1
6	0	1	1	2	?	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	1	1	7	7	1	4	2	3	2	3	2	2	0	0	0	0	1
8	0	0	0	0	0	0	0	0	0	0	0	0	0	28	60	4	0	0	0	2	2	0	0	0	4
9	0	4	0	2	1	1	1	1	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	1
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0	1	0	0
23	0	0	4	2	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
29	0	0	0	0	1	1	1	0	0	0	0	5	2	1	1	2	2	1	1	0	0	0	0	0	1
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3	2	1	1	1	0	0	0	0	0	0.6

PERCENTAGE OF DATA VALID - 99.7

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE												UNITS - 0.01 PARTS/MILLION																							
STATION - NE NO 77014												RAYSIDE SUDBURY AIRSHED												MONTH - OCT 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN										
1	1	0	1	1	1	1	1	1	1	1	1	0	0	1	1	0	0	0	1	0	0	0	0	0	0										
2	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0										
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0										
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
9	0	0	0	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0										
11	1	1	0	0	0	2	1	1	1	1	****	2	1	2	0	0	0	0	0	0	0	1	1	0	1										
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0										
13	0	0	0	0	0	0	0	0	0	0	0	0	3	13	19	16	12	18	0	0	0	0	1	1	3										
14	0	1	1	0	1	1	1	1	6	4	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1										
15	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
18	1	2	2	2	2	2	3	9	10	9	25	9	19	13	21	23	23	4	0	0	0	0	0	1	8										
19	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	1	1	0	1	1	0	0	0	0										
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0										
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
23	0	0	0	0	0	0	0	0	0	1	2	3	33	39	2	0	0	0	0	0	0	0	0	0	3										
24	0	0	0	0	0	0	0	0	0	1	2	5	0	1	0	0	0	0	3	0	0	0	0	0	1										
25	0	0	0	0	0	0	0	0	1	2	3	2	3	2	2	2	2	2	2	1	1	1	2	1	1										
26	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
27	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
29	0	1	1	0	0	1	1	1	1	2	5	1	4	1	0	0	8	6	2	0	0	0	0	1	2										
30	0	2	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0										
31	0	0	0	0	0	0	0	0	0	0	1	1	4	4	9	3	3	2	8	0	2	1	1	0	2										
MEAN	0	0	0	0	0	0	0	1	1	1	1	1	2	2	2	2	2	1	0	0	0	0	0	0	0.7										

PERCENTAGE OF DATA VALID - 99.7

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - NE NO 77014		RAYSIDE SUDBURY AIRSHED												MONTH - NOV 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	4	4	2	7	7	5	4	1	1	3	4	6	4	3	4	2	1	1	1	1	1	1	5	3
2	3	1	1	2	1	1	1	1	1	2	1	2	1	2	3	2	2	1	3	2	2	2	3	3	2
3	0	0	0	0	1	1	1	1	1	1	1	1	4	2	1	2	1	1	1	1	1	1	1	0	1
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	6	9	16	20	12	13	11	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	1	2	2	3	3	2	2	0	4
7	0	0	0	0	0	0	0	1	0	5	1	***	8	9	7	14	22	1	0	2	2	6	0	0	3
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	3	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	1	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	1	3	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	1	0	0	0	0	0	0	0	4	4	0	0	0	0	1	1	1	1	1	1
23	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	1	0	0	0	0	0	0	0	1
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	6	0
26	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	55	47	11	10	1	0	0	6
28	0	0	0	0	0	0	0	0	0	0	0	0	10	7	9	6	4	3	3	2	0	0	0	0	2
29	0	0	0	0	0	1	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	2	3	0	1	0	5	8	1	0	2	0	6	6	1
MEAN	0	0	0	0	0	0	0	0	0	0	0	1	2	2	1	2	2	2	2	1	1	0	1	1	0.9

PERCENTAGE OF DATA VALID - 99.9

PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*-\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LE-S THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - NE NO 77014		RAYSIDE SUDBURY AIRSHED												MONTH - DEC 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	7	12	0	0	1	0	0	0	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	***	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	21	32	5	13	1	3	1	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
12	1	6	5	3	3	3	0	0	0	0	0	0	***	0	0	0	6	14	10	5	1	1	1	1	3
13	0	0	0	0	0	0	0	0	0	0	1	3	3	4	13	7	1	1	2	2	1	6	11	17	3
14	12	5	3	3	4	2	2	2	0	0	0	0	3	3	4	4	0	0	0	0	0	0	0	0	2
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	1	2	3	5	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	1
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	1	20	29	16	1	3
20	0	0	3	2	16	3	0	0	0	1	2	0	0	0	0	0	0	0	0	0	4	12	20	9	3
21	11	11	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	1	1	1	0	1	0	0	0	0	0	1	0	1	1	1	1	0	1	1	0	1	2	2	1	0.7

PERCENTAGE OF DATA VALID - 99.7

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*-\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LE-S THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77014 RAYSIDE SUDBURY AIRSHED

MONTH	NO. OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.4	3	18
FEB	28	0.4	5	29
MAR	31	1.0	12	35
APR	30	0.8	11	131
MAY	31	0.3	2	21
JUN	30	0.8	2	13
JUL	26	0.4	3	19
AUG	31	0.3	2	17
SEP	30	0.6	7	60
OCT	31	0.7	8	39
NOV	30	0.9	6	55
DEC	31	0.7	3	32
YEAR	360	0.6	12	131

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77014 RAYSIDE SUDBURY AIRSHED

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	725	18	0	1	0	0	744
FEB	654	9	1	2	2	0	668
MAR	702	20	11	6	5	0	744
APR	696	13	5	3	1	2	720
MAY	735	4	3	2	0	0	744
JUN	708	9	2	0	0	0	719
JUL	625	21	2	2	0	0	650
AUG	737	6	0	1	0	0	744
SEP	706	5	0	2	3	2	718
OCT	718	11	3	8	2	0	742
NOV	685	23	6	3	0	2	719
DEC	711	13	9	7	2	0	742
YEAR	8402	152	42	37	15	6	8654

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
98.8	0	0.0	0.0	0.0	0.0	0.9	2.1	5.7	11.1	131	0.6

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - NE NO 77016		ASH ST WATER TANK, SUDBURY												MONTH - JAN 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	1	6	3	2	***	0	0	***	0	0	0	0	0	8	0	4	6	1
3	1	2	3	2	3	2	2	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1
4	2	2	3	2	3	1	1	1	1	0	1	1	***	***	***	***	0	0	0	0	0	0	0	1	1
5	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	7	11	0	0	2
6	0	0	0	0	0	0	0	0	0	1	2	2	2	1	0	0	0	3	3	0	0	1	1	0	0
7	1	2	6	2	4	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
8	1	0	0	0	0	0	0	0	0	0	***	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	2	1	1	0	0	0	0	0
10	0	6	8	6	4	2	0	0	0	0	0	0	1	1	1	1	0	0	1	1	1	1	1	1	2
11	2	2	2	2	2	2	1	1	1	1	1	***	***	0	1	1	1	1	0	0	0	***	0	0	1
12	0	0	0	1	2	1	0	0	0	1	1	0	0	0	1	1	1	1	2	6	1	8	17	7	2
13	2	1	1	26	16	23	47	43	11	6	2	1	1	1	0	***	0	0	0	0	0	0	0	0	8
14	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	30	7	7	21	6	2	1	2	2	6	3	2	2	4	2	2	1	2	3	13	3	15	18	20	4
17	1	2	2	2	2	2	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	4
18	3	3	2	2	2	1	0	0	0	0	0	1	0	0	0	0	2	5	8	10	7	11	6	3	3
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	-	-	0	***	***	***	1
20	0	0	0	0	0	0	0	1	1	6	3	4	1	***	3	2	1	1	2	10	23	2	1	1	3
21	0	1	1	1	1	1	1	2	1	2	1	0	1	1	1	1	1	1	1	1	0	0	0	0	1
22	-	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0
23	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	4	3	2	1	1	1	1	1
24	2	3	4	4	4	4	3	3	3	4	4	3	3	3	3	1	2	1	1	2	1	2	2	2	3
25	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	***	-	1	1	1	1	1	1	1	1
27	1	1	5	5	1	1	2	2	4	10	10	6	4	2	5	3	2	2	8	14	10	10	3	4	5
28	19	7	7	3	11	4	2	2	2	2	1	1	4	3	2	2	1	0	0	0	1	0	1	2	3
29	12	9	9	13	9	3	3	1	1	0	1	1	1	1	1	1	1	4	6	14	23	7	6	3	5
30	1	1	1	1	1	1	2	3	10	2	2	6	5	13	6	8	7	7	12	8	20	23	20	17	7
31	18	16	17	4	10	7	17	16	3	1	1	1	1	***	1	1	1	1	1	1	1	1	1	1	5
MEAN	3	2	3	3	3	2	3	3	2	2	1	1	1	1	1	1	1	1	2	3	4	3	3	2	2.2

PERCENTAGE OF DATA VALID - 97.2

PERCENTAGE OF DATA INVALID - 2.3

PERCENTAGE OF DATA UNAVAILABLE - 0.5

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - NE NO 77016		ASH ST WATER TANK, SUDBURY												MONTH - FEB 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1
2	1	0	1	1	4	0	2	9	1	1	3	4	3	1	0	0	0	1	0	0	1	1	1	1	2
3	1	1	2	6	3	2	2	2	2	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	2
4	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	1	2	1	0	0	0	0	0	0	1
5	0	0	1	0	1	0	0	0	0	0	0	1	1	0	1	0	0	1	0	0	0	***	***	0	0
6	0	0	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	0	0	1	5	33	2
8	7	10	1	1	1	1	***	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	2	2	2
9	3	3	2	3	3	3	3	2	3	3	3	2	3	3	3	4	5	2	2	3	3	2	2	1	3
10	2	2	2	2	1	1	1	2	2	1	1	1	1	1	1	2	4	3	3	4	4	3	2	2	2
11	2	2	3	3	4	3	3	4	3	3	2	2	1	2	1	2	2	2	2	2	1	2	1	2	2
12	5	4	2	2	2	2	2	2	1	1	1	2	1	2	2	2	2	2	2	2	1	1	1	1	2
13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1
14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	3	1
15	0	0	0	0	0	0	0	0	0	0	0	0	1	-	11	0	1	0	0	0	0	0	0	0	1
16	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	1	2	1	3	1	2	1	1
17	1	5	4	4	2	2	3	5	2	2	1	-	1	-	***	1	1	1	1	1	***	1	2	2	2
18	1	2	2	2	2	2	2	2	2	2	2	***	1	***	1	1	1	1	0	0	0	0	0	0	1
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0
21	1	1	1	1	1	1	0	0	0	0	4	1	1	2	1	1	0	0	0	0	0	0	0	0	1
22	0	0	1	1	1	1	0	6	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1
23	1	1	1	1	1	1	2	2	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	2	2	2	2	2	2	2	2	2	2	1	3	5	6	2	2	1	4	7	5	7	4	5	2	3
26	1	1	-	-	1	6	7	7	3	6	2	2	3	2	3	3	3	2	2	0	0	1	0	0	3
27	1	1	1	1	1	***	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1	0	0	0	2	-	1	2	4	2	2	6	13	14	4	1	1	0	3
MEAN	1	2	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	1.3

PERCENTAGE OF DATA VALID - 97.9

PERCENTAGE OF DATA INVALID - 1.2

PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77016 ASH ST WATER TANK. SUDBURY

MONTH - MAR 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	1	1	2	2	1	1	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	-	1	1	
2	3	23	22	5	1	3	4	20	17	12	9	2	1	2	1	3	3	2	8	14	2	0	0	0	7	
3	1	6	12	2	1	4	11	2	1	0	0	0	6	7	6	4	4	3	3	1	3	2	1	0	3	
4	0	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	
5	1	2	2	4	2	2	2	2	3	2	3	7	3	3	5	5	10	3	2	2	1	1	1	1	3	
6	1	1	1	1	1	1	1	1	1	1	1	1	1	3	6	3	3	1	2	1	1	1	1	1	2	
7	1	1	-	-	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	2	7	14	3	2	2	
8	1	1	1	1	1	1	1	1	1	1	6	7	2	2	3	2	2	2	2	2	-	-	2	2	2	
9	2	2	3	4	2	2	2	2	2	2	2	2	1	1	2	2	2	2	8	3	47	30	7	17	6	
10	4	13	6	6	26	16	3	2	1	2	1	4	5	3	5	2	2	1	1	1	1	1	2	3	5	
11	2	2	3	3	3	3	3	3	4	2	2	0	2	2	4	3	2	2	1	2	3	3	2	3	2	
12	2	2	2	2	2	2	2	2	2	2	2	2	2	4	2	2	2	1	2	2	2	2	2	2	2	
13	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	
14	2	5	2	2	2	2	2	3	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
15	0	1	2	1	2	2	3	2	1	2	1	0	***	1	0	0	0	0	0	0	0	0	1	1	1	
16	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	12	14	11	4	0	1	4	2	
18	1	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	1	2	2	1	0	0	0	
19	0	0	0	0	1	0	0	1	1	1	3	3	4	3	2	4	4	2	1	2	2	2	2	2	2	
20	2	2	2	2	2	1	1	1	1	1	1	1	7	18	6	1	1	2	3	2	2	1	5	1	3	
21	1	1	1	1	1	1	1	1	1	1	1	***	1	1	6	2	1	1	6	6	3	3	2	1	2	
22	1	1	1	2	1	0	4	1	0	5	9	4	1	1	1	1	1	1	1	1	1	1	1	2	2	
23	1	1	2	3	4	3	2	1	1	1	1	1	1	1	1	1	2	1	1	1	0	0	0	0	0	
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	***	***	1	1	1	***	***	***	***	***	
26	0	0	0	0	0	0	0	0	0	2	4	5	11	5	9	14	10	6	5	1	2	4	2	1	1	3
27	1	1	1	2	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1	2	2	1	1	
28	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29	1	1	1	1	1	1	1	1	1	1	1	2	2	2	3	2	2	2	-	1	10	8	2	1	2	
30	2	2	2	2	2	2	2	1	1	1	1	1	1	1	2	2	2	1	2	2	1	1	1	1	2	
31	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MEAN	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	1	2	2.0	

PERCENTAGE OF DATA VALID - 98.1

PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE - 0.8

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*-\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77016 ASH ST WATER TANK. SUDBURY

MONTH - APR 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	3	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
5	3	11	1	1	7	14	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	2
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1
7	1	1	1	2	1	1	1	2	1	1	1	0	1	0	0	0	0	1	4	1	5	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	2	5	0	6	6	2	3	2	3	1	2	2	2	1	6	11	14	12	3
10	1	0	4	30	21	2	1	0	1	1	1	1	1	1	1	2	2	2	1	1	2	1	1	1	3
11	2	3	2	3	3	3	2	2	2	2	2	3	2	5	2	1	2	3	1	2	1	1	1	1	2
12	1	1	1	1	1	1	1	3	10	8	8	4	1	1	0	0	0	0	0	0	0	0	0	0	2
13	1	1	1	2	2	4	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	0	0	2	1	0
15	1	0	1	1	4	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
16	0	0	1	0	0	0	1	1	1	0	4	9	5	2	0	0	3	0	2	0	0	0	3	0	1
17	1	0	0	0	0	0	0	0	0	1	1	1	2	2	2	2	0	0	0	0	0	0	0	0	1
18	5	1	1	1	1	4	2	1	2	2	5	1	1	6	6	3	3	0	0	0	0	0	0	1	2
19	1	6	3	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	2	1	2	2	1
20	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	2	2	1	2	2	1	2	2	2	1
21	2	2	3	3	2	3	2	2	2	2	2	3	3	2	2	2	4	7	3	2	1	2	2	2	3
22	4	4	2	1	1	2	2	2	1	2	1	1	0	0	0	0	2	3	0	0	0	0	1	1	1
23	4	3	2	-	***	1	3	11	20	2	1	7	5	5	4	3	1	1	0	0	1	2	1	2	4
24	0	***	0	1	1	1	5	-	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	1
26	0	1	1	1	1	1	0	1	1	0	1	0	1	2	9	14	4	0	2	0	0	1	1	1	2
27	1	1	1	1	2	1	1	1	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1
28	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	3	6	3	6	17	10	2	3	2	3
30	2	11	4	6	10	20	24	10	7	8	4	3	3	3	3	3	3	2	2	3	3	3	3	3	6
MEAN	1	2	1	2	2	2	2	2	2	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1.5

PERCENTAGE OF DATA VALID - 97.6

PERCENTAGE OF DATA INVALID - 1.0

PERCENTAGE OF DATA UNAVAILABLE - 1.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*-\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

NOTES 1. "\*\*\*\*\*" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
2. "-" INDICATES DATA IS UNAVAILABLE  
3. "\*\*\*\*\*" INDICATES LEW3 THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

NOTES 1. "\*\*\*\*\*" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
2. "-" INDICATES DATA IS UNAVAILABLE  
3. "\*\*\*\*\*" INDICATES LEW5 THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE																UNITS - 0.01 PARTS/MILLION																			
STATION - NE NO 77016																ASH ST WATER TANK, SUDBURY										MONTH - JUL 77									
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN										
1	1	2	3	1	4	2	2	1	1	1	1	1	2	4	2	2	2	2	2	4	2	2	0	0	2										
2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	4	1	1	0	0	0	8	1										
3	4	11	***	2	3	1	1	0	0	1	1	2	1	1	1	2	2	2	2	1	-	***	2	2	2										
4	9	2	2	2	2	2	1	1	0	3	6	10	8	5	5	4	3	5	2	3	22	9	6	1	5										
5	1	1	1	6	3	3	2	1	1	1	0	0	1	1	0	0	0	1	1	1	1	1	1	1	1										
6	1	1	1	0	0	0	1	0	***	***	***	***	***	***	***	0	0	0	0	0	0	0	0	0	0										
7	0	0	0	***	***	0	0	-	***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
8	1	0	0	8	13	3	***	2	1	3	0	1	5	6	3	3	1	2	8	2	2	0	0	0	3										
9	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0										
10	0	***	1	1	0	0	0	0	0	0	0	0	1	1	7	1	7	5	0	1	0	2	1	0	1										
11	0	0	0	2	0	0	0	0	1	1	1	0	0	0	0	0	0	1	0	0	1	1	2	3	1										
12	4	2	2	0	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1										
13	1	1	6	13	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	***	1	1	1	1	2										
14	1	1	1	1	1	1	1	1	1	1	4	-	8	3	1	1	1	1	1	1	1	1	1	1	2										
15	1	1	1	1	2	4	0	1	3	1	0	1	7	4	1	0	0	0	1	7	11	21	14	3	4										
16	0	0	0	0	0	0	0	3	1	1	0	2	***	53	***	4	***	***	3	3	***	0	0	1	4										
17	1	2	1	1	1	1	2	12	6	1	1	6	6	9	0	0	0	0	0	2	0	1	1	1	2										
18	2	1	3	2	1	2	2	2	2	-	2	***	1	0	0	0	0	1	1	0	0	0	0	0	1										
19	0	0	0	0	1	0	3	5	6	4	1	8	1	***	***	1	0	0	0	0	0	1	0	0	1										
20	0	0	0	1	24	4	5	1	1	0	3	3	3	3	2	6	6	2	7	1	0	0	0	0	3										
21	0	0	0	0	0	0	0	1	0	***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	1	0	-	0	0	0	5	5	1										
23	1	0	0	1	0	0	4	2	1	9	2	1	4	3	4	2	4	2	7	10	8	1	5	17	4										
24	19	3	15	3	4	0	0	0	0	0	0	0	0	0	0	0	0	4	3	0	0	***	0	0	2										
25	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
26	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	-	-	-	0	0	0										
27	2	1	0	0	0	7	2	10	1	0	2	5	10	3	5	1	2	2	2	2	1	1	1	0	3										
28	0	2	1	0	1	0	1	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	1										
29	2	2	2	2	2	2	2	2	2	1	0	0	0	0	0	0	0	1	3	0	0	0	0	0	1										
30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	2	0	0	0	0	0	0	0	0	0										
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	9	7	1										
MEAN	2	1	1	2	2	1	1	2	1	1	1	2	2	3	1	1	1	1	2	1	2	2	2	2	1.5										

PERCENTAGE OF DATA VALID - 95.4

PERCENTAGE OF DATA INVALID - 3.4

PERCENTAGE OF DATA UNAVAILABLE - 1.2

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE														UNITS - 0.01 PARTS/MILLION																							
STATION - NE NO 77016														ASH ST WATER TANK, SUDBURY												MONTH - AUG 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN												
1	0	0	4	10	0	0	0	0	0	0	0	0	0	0	0	0	2	2	8	0	0	0	0	0	1												
2	0	0	0	0	0	4	0	5	3	2	2	0	0	***	2	0	0	0	2	2	1	1	1	1	1												
3	2	2	1	2	2	1	2	2	2	3	4	1	2	2	2	2	1	2	1	1	1	1	1	1	2												
4	2	1	1	1	1	2	1	2	3	4	2	8	11	8	4	4	1	1	1	1	1	1	1	1	3												
5	1	1	1	1	1	2	2	2	2	1	0	3	1	0	2	2	2	2	1	4	4	0	***	2	2												
6	***	0	0	0	0	0	0	0	0	0	0	0	0	3	17	19	2	5	0	0	0	1	7	3	2												
7	3	5	19	1	0	0	0	1	1	0	0	0	0	1	0	0	1	3	1	0	0	0	0	0	2												
8	0	0	2	4	13	11	2	2	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2												
9	0	0	0	0	0	0	0	0	2	3	10	7	7	13	3	5	0	0	0	1	3	3	3	2	3												
10	2	1	1	0	0	1	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	1												
11	0	0	0	0	1	1	0	0	1	5	6	5	1	1	1	1	3	4	2	1	0	0	0	0	1												
12	0	3	0	0	0	0	0	1	3	2	4	1	1	0	0	0	0	0	0	0	0	0	0	0	1												
13	0	1	0	0	0	0	0	0	1	7	0	0	0	1	0	1	0	3	0	0	0	1	6	3	1												
14	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	0	0	0	1	1	4	5	0	1	0												
15	0	0	0	0	0	0	0	0	0	0	0	3	1	4	2	0	0	0	0	0	0	0	1	3	1												
16	0	4	0	0	0	0	0	0	1	2	1	0	1	0	0	1	3	1	0	0	0	0	0	0	0												
17	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	2	0												
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0												
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1												
20	1	0	0	0	0	0	0	0	0	0	0	0	1	3	11	15	1	0	0	0	0	0	0	0	1												
21	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0												
22	0	0	0	0	0	0	0	0	0	***	0	0	0	0	1	10	1	1	0	0	0	0	0	1	0												
23	4	6	6	0	0	0	0	0	0	0	0	0	1	3	2	0	2	1	1	3	6	0	0	0	1												
24	0	0	0	0	1	0	0	0	0	***	0	0	0	0	***	0	0	1	0	0	0	0	0	0	0												
25	0	0	0	0	0	0	0	0	0	0	0	1	3	5	15	10	8	1	1	1	1	1	1	1	2												
26	1	1	1	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	0	0	0												
27	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1												
28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	2	2	1	1	1												
29	2	2	1	2	1	2	2	2	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1												
30	0	0	0	2	1	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
31	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	***	0	0	***	0	***	0	0	0	0												
MEAN	1	1	1	1	1	1	0	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	0	1.0												

PERCENTAGE OF DATA VALID - 98.7

PERCENTAGE OF DATA INVALID - 1.2

PERCENTAGE OF DATA UNAVAILABLE - 0.1

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77016

ASH ST WATER TANK. SUDBURY

MONTH - SEP 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	1	0	0	0	0	0	0	1	3	2	0	0	0	0	0	0	1	****	0	0	0	0	0	0	0	0
2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	5	4	5	5	4	****	5	4	0	0	1
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	1	2	0
4	6	2	8	3	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5	0	0	0	0	1	1	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0
8	0	0	0	0	0	0	0	1	1	****	1	0	0	****	****	0	0	0	0	0	0	0	0	0	0	0
9	1	1	1	1	1	1	1	1	3	2	1	1	1	2	2	2	1	2	3	2	4	10	4	1	2	0
10	2	4	2	1	4	2	4	3	0	0	0	0	0	0	0	0	0	0	0	****	0	0	0	0	0	1
11	0	0	0	0	0	0	0	0	0	0	0	0	0	9	3	2	3	1	0	****	****	0	0	0	0	0
12	0	0	0	0	0	0	0	6	0	0	0	0	8	12	20	12	11	1	****	****	2	-	-	0	4	0
13	0	0	1	1	1	1	0	0	0	****	0	0	0	0	0	0	****	****	0	0	0	0	1	1	0	0
14	1	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	-	-	0	0	0	3	6	8	1	0
15	11	14	20	3	16	3	9	4	3	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	4	0
16	0	0	0	0	0	0	0	0	0	0	****	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1	0	1	****	2	1	9	16	1	0
18	10	2	15	11	22	15	27	3	2	0	0	0	0	0	0	0	0	0	0	****	0	0	0	1	5	0
19	0	1	0	0	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	2	5	5	3	4	4	13	31	20	14	11	9	5	0
23	8	7	8	8	8	7	4	2	1	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	2
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	****	0	0	****	0	0	****	0	****	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	****	1	1	1	1	1	1	1	0	1	****	****	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	1	****	1	1	1	1	1	1	3	2	6	6	1	1	1	1	2	0
28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0
29	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	****	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	1	1	2	1	2	1	2	1	1	0	0	0	1	1	1	1	1	1	1	2	1	1	1	1	1	1

PERCENTAGE OF DATA VALID - 95.1

PERCENTAGE OF DATA INVALID - 4.2

PERCENTAGE OF DATA UNAVAILABLE - 0.7

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77016

ASH ST WATER TANK. SUDBURY

MONTH - OCT 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	4	1	14	3	1	1	0	1	1	0	0	0	0	0	0	0	0	0	1	13	9	0	0	0	1
6	19	10	2	1	1	0	0	0	1	0	0	0	0	0	3	2	5	0	0	0	0	3	0	2	2
7	2	2	2	2	1	1	1	1	1	2	0	0	0	0	0	0	0	1	1	1	1	2	1	1	2
8	0	0	0	0	0	0	0	0	0	0	0	0	****	****	0	0	0	0	0	0	****	0	0	1	0
9	1	1	1	1	1	1	1	0	1	1	1	1	2	4	2	3	1	1	1	1	0	0	1	1	0
10	1	0	0	0	0	****	1	2	0	0	1	7	2	0	1	1	0	0	0	0	0	0	1	1	1
11	1	1	1	1	1	0	0	0	0	0	1	1	1	1	0	****	1	1	2	0	0	1	0	0	1
12	0	0	0	0	0	2	4	7	****	0	0	0	0	0	0	0	0	0	****	0	0	0	0	0	1
13	0	0	0	0	0	0	0	0	0	0	0	1	2	4	21	8	6	4	1	1	1	1	1	1	2
14	1	1	1	1	1	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	7	5	3	0
15	2	1	1	1	1	1	1	0	0	0	1	****	1	1	****	0	****	****	****	****	0	1	1	1	1
16	0	0	1	1	1	1	1	1	1	1	1	1	1	****	1	1	1	1	0	****	1	1	0	1	1
17	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	13	4	0	0	****	0	0	0	0	1
18	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	****	****	0	0	0	0	2	0
19	3	4	2	24	11	2	2	2	1	1	1	1	2	3	1	1	3	10	****	****	3	3	3	2	4
20	2	3	2	1	1	1	1	2	2	6	7	****	3	6	6	2	2	1	****	****	1	1	1	1	3
21	1	1	1	1	5	4	16	4	1	3	3	6	1	1	3	1	1	3	****	7	5	1	0	0	3
22	0	0	0	0	0	0	0	0	0	0	****	0	0	0	0	****	0	****	****	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	****	****	****	0	0	0	1	0
24	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****	1	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	2	****	1	1	1	1	1	1
26	1	2	3	4	3	4	1	2	3	****	8	4	2	5	5	2	2	****	3	****	2	1	1	1	3
27	1	1	1	1	1	3	13	5	1	1	1	1	1	5	1	1	1	****	0	6	5	3	4	1	3
28	1	1	1	1	1	1	1	1	1	****	0	0	1	2	-	0	0	0	10	6	9	0	0	2	0
29	0	0	1	0	1	0	1	1	0	0	0	****	0	0	0	0	0	0	0	0	3	8	4	3	1
30	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	****	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2	1	1	1	1	1	1

PERCENTAGE OF DATA VALID - 94.1

PERCENTAGE OF DATA INVALID - 5.8

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY





## MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77016 ASH ST WATER TANK, SUDBURY

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	2.2	8	47
FEB	28	1.3	3	33
MAR	31	2.0	7	47
APR	30	1.5	6	30
MAY	31	1.8	7	72
JUN	30	2.4	8	47
JUL	31	1.5	5	53
AUG	31	1.0	3	19
SEP	30	1.1	5	31
OCT	31	1.1	4	24
NOV	29	0.8	3	15
DEC	31	1.2	2	10
YEAR	364	1.5	8	72

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

## MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77016 ASH ST WATER TANK, SUDBURY

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	638	50	12	19	2	2	723
FEB	633	21	3	0	1	0	658
MAR	671	38	11	7	2	1	730
APR	654	34	8	6	1	0	703
MAY	676	42	8	3	5	1	735
JUN	622	50	15	12	4	3	706
JUL	648	49	6	6	0	1	710
AUG	697	26	6	5	0	0	734
SEP	639	27	9	8	2	0	685
OCT	662	29	5	4	0	0	700
NOV	638	18	3	1	0	0	660
DEC	713	25	0	0	0	0	738
YEAR	7891	409	86	71	17	8	8482

## FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
96.8	0	0.0	0.0	0.2	0.9	2.9	5.5	10.4	15.2	72	1.5















MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77017 MORGAN SUDBURY AIRSHED

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.5	7	32
FEB	28	0.3	3	16
MAR	31	0.5	5	20
APR	30	0.3	3	19
MAY	26	0.3	4	31
JUN	30	0.1	1	7
JUL	31	0.5	4	24
AUG	31	0.2	2	24
SEP	30	0.1	2	13
OCT	31	0.8	15	145
NOV	30	0.5	4	42
DEC	31	1.5	5	24
YEAR	360	0.5	15	145

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77017 MORGAN SUDBURY AIRSHED

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	725	10	2	4	2	0	743
FEB	657	5	3	1	0	0	666
MAR	718	17	4	4	0	0	743
APR	704	9	4	2	0	0	719
MAY	634	4	0	1	2	0	641
JUN	717	1	0	0	0	0	718
JUL	736	4	2	2	0	0	744
AUG	738	2	0	1	0	0	741
SEP	701	3	1	0	0	0	705
OCT	717	15	4	1	4	2	743
NOV	687	13	4	3	1	1	709
DEC	691	44	6	2	0	0	743
YEAR	8425	127	30	21	9	3	8615

FREQUENCY DISTRIBUTION BY PERCENTILES

DISTRIBUTION BY PERCENTILES				CONCENTRATIONS								ARITH
PERCENT OF DATA VALID	MIN	10	30	FREQUENCY 50	DISTRIBUTION 70	PERCENT 90	95	98	99	MAX	MEAN	
98.3	0	0.0	0.0	0.0	0.0	0.7	1.8	4.4	8.2	145	0.5	













MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77018 ST. CHARLES SUDBURY AIRSHED

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.5	3	19
FEB	27	0.7	3	21
MAR	31	0.4	2	20
APR	30	0.4	3	26
MAY	31	0.2	1	19
JUN	30	0.2	1	17
JUL	28	0.4	2	13
AUG	31	0.7	2	19
SEP	30	0.3	1	10
OCT	31	0.2	2	16
NOV	30	0.2	1	5
DEC	31	1.1	3	18
YEAR	361	0.4	3	26

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77018 ST. CHARLES SUDBURY AIRSHED

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	732	7	3	2	0	0	744
FEB	646	8	1	4	0	0	659
MAR	720	19	1	3	0	0	743
APR	703	16	0	0	1	0	720
MAY	732	8	1	1	0	0	742
JUN	710	7	1	1	0	0	719
JUL	679	9	1	0	0	0	689
AUG	716	22	2	1	0	0	741
SEP	710	8	0	0	0	0	718
OCT	735	7	0	1	0	0	743
NOV	714	5	0	0	0	0	719
DEC	718	18	4	2	0	0	742
YEAR	8515	134	14	15	1	0	8679

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
99.1	0	0.0	0.0	0.0	0.0	1.1	2.0	3.9	6.1	26	0.4









ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77019 GRASSY LAKE SUDBURY AIRSHED

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN		DATA UNAVAILABLE		
FEB		DATA UNAVAILABLE		
MAR		DATA UNAVAILABLE		
APR		DATA UNAVAILABLE		
MAY	26	1.4	4	22
JUN	30	0.9	2	20
JUL	28	1.1	3	23
AUG	27	0.5	2	12
SEP	30	0.2	1	13
OCT	19	0.2	1	10
YEAR	160	0.7	4	23

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77019 GRASSY LAKE SUDBURY AIRSHED

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	DATA UNAVAILABLE						
FEB	DATA UNAVAILABLE						
MAR	DATA UNAVAILABLE						
APR	DATA UNAVAILABLE						
MAY	597	29	6	4	0	0	636
JUN	694	16	3	3	0	0	716
JUL	636	26	1	1	0	0	664
AUG	644	12	1	0	0	0	657
SEP	706	7	1	0	0	0	714
OCT	462	5	0	0	0	0	467
YEAR	3739	95	12	8	0	0	3854

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
87.3	0	0.0	0.0	0.0	0.3	1.5	2.5	4.9	7.5	23	0.7















MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77028 GOVERNMENT/EDWARD ST CONISTON

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	30	1.4	4	29
FEB	28	1.8	7	41
MAR	31	1.8	6	39
APR	30	1.7	13	69
MAY	31	2.4	8	70
JUN	30	2.2	10	63
JUL	31	1.4	4	20
AUG	31	1.6	7	49
SEP	30	0.9	7	63
OCT	31	1.1	8	59
NOV	30	0.9	4	38
DEC	31	1.4	5	40
YEAR	364	1.5	13	70

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77028 GOVERNMENT/EDWARD ST CONISTON

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	697	14	4	2	1	0	718
FEB	628	18	3	1	4	1	655
MAR	682	25	4	3	4	0	718
APR	655	22	10	6	3	5	701
MAY	640	51	17	14	3	5	730
JUN	621	41	12	21	5	3	703
JUL	671	32	6	5	0	0	714
AUG	668	20	10	14	2	1	715
SEP	682	11	4	5	4	1	707
OCT	702	16	1	4	4	4	731
NOV	667	14	3	4	3	0	691
DEC	700	30	2	2	1	1	736
YEAR	8013	294	76	81	34	21	8519

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
97.2	0	0.0	0.0	0.2	0.8	2.5	4.9	11.7	18.8	70	1.5















MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77052 LOCKERBY SUDBURY AIRSHED

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	30	0.8	6	27
FEB	27	0.8	3	12
MAR	27	1.9	14	83
APR	24	0.5	5	35
MAY	31	1.2	8	69
JUN	26	1.3	8	48
JUL	30	0.6	5	30
AUG	30	1.0	4	31
SEP	29	0.9	7	27
OCT	31	0.4	3	28
NOV	22	0.3	4	25
DEC	30	0.1	1	13
YEAR	337	0.8	14	83

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77052 LOCKERBY SUDBURY AIRSHED

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	686	16	2	8	1	0	713
FEB	636	17	1	0	0	0	654
MAR	553	41	11	18	0	2	625
APR	570	9	3	3	1	0	586
MAY	685	21	5	7	3	3	724
JUN	576	30	5	10	3	1	625
JUL	701	9	6	3	2	0	721
AUG	688	26	3	0	1	0	718
SEP	645	19	3	7	1	0	675
OCT	714	16	1	2	1	0	734
NOV	549	9	0	3	0	0	561
DEC	706	2	1	0	0	0	709
YEAR	7709	215	41	61	13	6	8045

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
91.8	0	0.0	0.0	0.0	0.0	1.6	3.3	8.4	13.9	83	0.8















MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77065 FALCONBRIDGE ROAD SUDBURY

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	27	0.8	4	24
FEB	27	0.9	4	22
MAR	31	1.6	7	48
APR	26	1.4	5	77
MAY	31	1.5	6	36
JUN	30	1.9	11	87
JUL	31	1.2	6	30
AUG	26	0.9	6	31
SEP	30	0.6	6	38
OCT	30	1.1	6	49
NOV	25	1.3	8	48
DEC	28	1.8	13	55
YEAR	342	1.3	13	87

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77065 FALCONBRIDGE ROAD SUDBURY

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	639	27	4	1	0	0	671
FEB	640	13	6	3	0	0	662
MAR	648	36	9	13	5	2	713
APR	591	13	11	6	2	2	625
MAY	676	26	11	17	5	0	735
JUN	655	25	10	16	7	6	719
JUL	681	38	9	11	5	0	744
AUG	624	18	7	8	3	0	660
SEP	689	23	0	2	2	0	716
OCT	678	26	7	4	3	2	720
NOV	567	28	11	10	1	1	618
DEC	639	30	8	16	7	4	704
YEAR	7727	303	93	107	40	17	8287

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
94.6	0	0.0	0.0	0.0	0.0	2.4	5.9	13.9	20.9	87	1.3







MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77066 TEMAGAMI SUDBURY AIRSHED

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN		DATA UNAVAILABLE		
FEB		DATA UNAVAILABLE		
MAR		DATA UNAVAILABLE		
APR		DATA UNAVAILABLE		
MAY	21	0.8	3	14
JUN	30	0.4	2	11
JUL	31	0.5	3	14
AUG	31	0.4	2	10
SEP	27	0.1	1	6
OCT	7	0.2	1	8
YEAR	147	0.4	3	14

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77066 TEMAGAMI SUDBURY AIRSHED

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	DATA UNAVAILABLE						
FEB	DATA UNAVAILABLE						
MAR	DATA UNAVAILABLE						
APR	DATA UNAVAILABLE						
MAY	492	18	2	0	0	0	512
JUN	706	9	2	0	0	0	717
JUL	732	10	2	0	0	0	744
AUG	730	12	0	0	0	0	742
SEP	667	3	0	0	0	0	670
OCT	206	3	0	0	0	0	209
YEAR	3533	55	6	0	0	0	3594

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	PERCENT 95	98	99	MAX	ARITH MEAN
81.4	0	0.0	0.0	0.0	0.0	0.8	1.8	3.7	5.1	14	0.4

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - NE NO 77067		CHINIGUCHI SUDBURY AIRSHED												MONTH - MAY 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1																									
2																									
3																									
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28																									
29																									
30																									
31																									
MEAN																									

PERCENTAGE OF DATA VALID - 62.5 PERCENTAGE OF DATA INVALID - 0.4 PERCENTAGE OF DATA UNAVAILABLE - 37.1

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
 2. -- INDICATES DATA IS UNAVAILABLE  
 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - NE NO 77067		CHINIGUCHI SUDBURY AIRSHED												MONTH - JUN 77											
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
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29																									
30																									
MEAN																									

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.7 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
 2. -- INDICATES DATA IS UNAVAILABLE  
 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY







MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77067 CHINIGUCHI SUDBURY AIRSHED

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN		DATA UNAVAILABLE		
FEB		DATA UNAVAILABLE		
MAR		DATA UNAVAILABLE		
APR		DATA UNAVAILABLE		
MAY	19	0.9	4	52
JUN	30	0.5	4	14
JUL	24	1.2	6	25
AUG	23	1.7	7	44
SEP	29	0.9	3	10
OCT	10	0.5	1	9
YEAR	135	0.9	7	52

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77067 CHINIGUCHI SUDBURY AIRSHED

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	DATA UNAVAILABLE						
FEB	DATA UNAVAILABLE						
MAR	DATA UNAVAILABLE						
APR	DATA UNAVAILABLE						
MAY	436	20	4	3	1	1	465
JUN	695	15	5	0	0	0	715
JUL	532	38	4	3	0	0	577
AUG	471	42	9	5	0	1	528
SEP	689	14	0	0	0	0	703
OCT	261	6	0	0	0	0	267
YEAR	3084	135	22	11	1	2	3255

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
73.7	0	0.0	0.0	0.0	0.3	2.0	4.2	7.9	10.3	52	0.9

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - NE NO 77075 KENNEDY ST NEW SUDBURY		MONTH - JAN 77																							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	0	0	1	1	1	1	1	1	1	4	8	14	4	2	3	7	1	1	1	1	1	1	1	1	2
4	0	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1
5	1	1	1	1	1	2	1	2	1	1	1	2	2	2	2	1	1	1	1	1	1	2	1	1	1
6	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	4	1	1	2	3	3	2
7	3	4	3	1	3	4	2	1	1	1	1	2	1	2	2	2	1	1	1	2	1	1	1	1	1
8	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	2	1	1	1	1	1
9	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	4	6	4	4	4	3	2	1	2	2
10	4	13	9	4	2	1	1	1	1	1	1	1	1	1	1	2	4	3	2	1	2	1	2	2	3
11	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	****	0	0	0	1
12	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	3	8	3	1
13	2	1	0	2	1	1	1	0	1	2	1	1	1	1	1	****	1	1	1	1	1	1	1	1	1
14	1	1	1	2	2	2	2	2	2	2	2	6	3	2	2	2	2	3	3	2	2	2	2	2	2
15	2	2	2	2	2	2	3	2	2	3	5	5	4	5	6	6	1	3	14	8	1	1	1	2	4
16	2	1	2	6	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	2	2	2	2	2	0	1	1	1	1	1	1	3	5	6	10	12	8	3	2	3
18	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	1	1	1	1	2	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1	7	13	****	6	3	2	1	1	4	1	1	1	1	2
21	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	0	1	1	0	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1
24	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
25	4	3	3	2	1	2	2	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	2
26	1	2	1	1	1	1	1	1	1	1	1	1	2	3	2	3	2	1	1	1	1	1	1	1	2
27	2	2	14	6	2	2	2	5	6	4	4	5	8	9	9	13	10	7	4	3	5	6	3	4	6
28	4	3	8	2	7	4	1	1	1	0	2	5	4	5	7	4	4	2	1	0	0	1	1	1	3
29	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	13	1	1	1	1	2
30	1	1	1	1	1	1	1	2	2	1	1	1	1	2	4	6	9	6	6	1	2	2	8	3	3
31	3	1	1	1	1	1	1	1	1	1	1	1	1	****	1	1	1	1	1	1	1	1	1	1	1
MEAN	2	2	2	2	2	2	1	1	1	1	2	2	2	2	3	2	2	2	2	2	2	2	2	2	1.9

PERCENTAGE OF DATA VALID - 98.9

PERCENTAGE OF DATA INVALID - 0.5

PERCENTAGE OF DATA UNAVAILABLE - 0.5

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - NE NO 77075 KENNEDY ST NEW SUDBURY		MONTH - FEB 77																							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	2	2	2	2	2	2	2	2	1	2	1	2	1	2	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	1	2	3	1	4	1	5	1	1	1	1	1	1	1	1	3	2	2	2
3	2	2	2	4	3	3	3	2	2	2	4	2	1	1	1	1	1	1	1	1	1	1	1	1	2
4	1	1	2	1	2	2	1	1	1	1	1	1	1	1	1	6	7	3	1	1	1	1	1	1	2
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	0	0	1	4	5	1
8	4	5	1	1	0	1	1	****	1	0	1	1	1	1	2	1	2	2	2	2	2	3	3	2	2
9	4	4	3	3	3	3	3	2	3	2	3	4	4	4	4	4	4	3	2	2	2	3	2	2	3
10	2	2	2	2	3	1	1	1	1	1	1	1	1	1	1	2	3	5	3	3	5	6	5	4	3
11	2	2	3	4	4	4	3	4	3	2	2	2	2	2	2	2	3	3	2	2	1	1	1	1	2
12	1	6	5	3	3	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
13	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1
15	1	2	2	2	2	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	1	1	1	1
17	0	0	0	1	1	0	0	1	0	1	1	-	1	1	1	1	1	1	1	2	****	3	3	3	1
18	3	3	4	3	3	3	3	3	3	4	4	4	4	4	3	3	3	3	2	1	1	1	1	1	3
19	1	1	1	2	1	1	1	2	1	2	2	1	1	2	1	1	1	1	2	2	1	1	0	1	1
20	1	1	0	1	0	1	1	0	1	1	1	0	0	0	0	0	0	1	0	0	1	1	1	1	1
21	1	1	1	2	2	2	2	2	2	2	3	9	9	12	4	2	2	1	2	2	2	2	2	3	3
22	3	2	3	3	3	3	****	4	3	4	2	1	2	1	1	2	1	0	0	0	1	1	1	1	2
23	1	1	1	1	0	1	1	4	3	1	1	1	2	1	1	1	1	1	1	1	0	1	0	1	1
24	1	1	0	1	1	1	1	2	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1
25	1	1	1	1	1	1	2	2	3	3	4	5	8	7	4	5	2	5	2	9	5	6	1	1	3
26	1	1	-	-	1	4	****	****	****	3	3	5	3	2	4	16	9	4	2	1	1	1	1	1	3
27	3	1	1	1	1	****	1	2	1	2	2	2	2	1	1	2	2	2	2	1	1	1	1	1	1
28	1	2	1	1	1	1	1	0	0	1	1	-	1	1	1	3	4	5	3	2	1	1	1	1	1
MEAN	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	1	2	1	2	1	2	1.7

PERCENTAGE OF DATA VALID - 97.5

PERCENTAGE OF DATA INVALID - 1.6

PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE															UNITS - 0.01 PARTS/MILLION										
STATION - NE NO 77075 KENNEDY ST NEW SUDBURY															MONTH - MAR 77										
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	
2	1	1	3	1	1	1	1	1	1	2	2	6	3	6	5	4	4	3	13	4	1	1	1	1	3
3	1	1	1	1	1	1	2	1	1	1	1	2	10	17	9	5	7	10	6	2	4	3	2	1	4
4	1	1	2	18	2	1	2	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	2
5	1	3	6	4	5	3	6	8	6	2	3	5	5	4	5	4	3	1	1	1	0	0	0	0	3
6	0	0	0	1	0	1	1	1	1	1	1	1	1	1	2	1	1	0	0	0	0	0	0	0	1
7	0	0	-	-	0	0	1	0	1	1	1	1	1	1	2	6	4	2	1	1	1	4	2	4	2
8	1	1	1	2	1	1	1	1	1	1	2	6	2	2	4	2	2	2	2	2	-	-	2	2	2
9	2	2	2	3	3	2	3	3	2	2	2	2	2	2	2	2	2	2	9	3	4	5	2	6	3
10	8	12	6	2	9	5	2	2	1	2	2	7	14	6	5	4	2	2	2	1	1	1	1	0	4
11	1	1	1	2	2	3	3	3	10	5	2	2	4	9	8	4	4	4	4	4	3	4	3	3	4
12	3	2	1	1	2	2	5	6	2	2	2	2	3	5	2	2	2	2	6	3	3	2	2	3	3
13	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1
14	0	1	1	0	1	1	1	0	1	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1
15	0	0	0	1	1	1	3	3	2	2	3	2	***	1	1	2	1	2	1	1	1	1	2	2	1
16	2	3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6	15	19	11	1	1	2	
18	1	1	0	1	1	2	2	1	1	1	2	4	6	1	2	2	2	2	3	4	4	2	2	1	2
19	1	1	1	1	1	2	1	1	2	2	2	2	14	35	26	8	5	3	2	2	2	2	2	2	5
20	2	2	2	2	2	2	2	2	2	2	2	7	34	15	2	2	2	3	4	6	3	2	2	1	4
21	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	11	20	10	3	2	1	1	3
22	0	1	1	3	6	2	6	1	1	14	18	1	1	0	2	1	2	1	1	1	1	1	1	1	3
23	0	0	0	0	0	0	0	1	1	1	1	2	1	1	1	1	2	1	1	1	2	1	1	1	1
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	1	***	1
26	0	1	1	1	1	1	1	1	3	6	9	11	16	6	7	10	8	6	3	2	5	2	2	1	4
27	1	1	1	1	1	2	1	1	1	2	2	2	1	2	2	2	2	2	1	1	1	1	1	1	1
28	1	2	2	2	2	3	2	2	2	2	2	2	2	2	2	3	3	2	3	3	3	3	3	3	2
29	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5	2	1	2
30	1	2	2	2	2	1	2	2	2	1	1	2	2	2	3	4	4	2	2	3	1	2	2	1	2
31	2	1	1	2	1	1	2	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1
MEAN	1	2	2	2	2	2	2	2	2	2	2	3	4	4	3	3	2	3	3	3	2	2	1	1	2.3

PERCENTAGE OF DATA VALID - 98.9

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.8

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE															UNITS - 0.01 PARTS/MILLION										
STATION - NE NO 77075 KENNEDY ST NEW SUDBURY															MONTH - APR 77										
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	1	1	1	1	1	1	1	1	2	2	1	2	2	1	2	1	2	1	2	1	2	1	1
2	1	1	2	1	2	2	1	2	1	1	1	1	1	1	1	2	-	-	16	10	4	2	2	3	
3	2	2	2	1	1	1	1	1	2	1	1	2	1	2	1	1	-	2	1	1	1	1	1	1	
4	1	1	1	1	1	1	1	2	1	1	1	1	1	2	1	1	2	1	2	1	2	2	1	1	
5	47	38	2	1	39	64	2	2	2	2	1	1	1	1	2	1	2	1	1	1	1	1	1	1	
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7	0	1	0	1	2	1	1	0	1	1	0	1	1	0	1	1	1	1	2	0	0	0	0	1	
8	0	1	0	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	2	4	1	1	1	1	
9	1	1	1	1	1	1	1	2	1	1	3	5	19	12	10	5	4	4	5	3	9	5	4	1	
10	1	1	1	9	8	1	2	1	2	1	1	2	1	2	2	2	3	3	2	1	1	1	1	2	
11	1	2	2	2	2	2	2	2	1	2	2	3	1	2	2	3	3	3	3	3	3	3	3	3	
12	2	2	2	1	1	1	6	16	8	12	26	3	5	1	1	1	1	1	1	1	1	1	1	1	
13	0	0	1	1	2	2	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	
14	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	2	2	1	1	1	1	1	
16	0	1	0	0	0	0	1	0	1	1	7	4	2	2	3	3	4	6	4	1	1	2	2	2	
17	1	1	1	1	1	2	2	2	2	2	3	4	5	5	5	5	4	1	1	1	1	2	1	2	
18	1	0	0	0	0	0	1	1	2	2	3	1	1	2	5	13	9	2	2	2	1	1	1	1	
19	0	0	0	0	0	0	0	1	1	1	2	2	3	3	4	4	5	6	5	5	4	4	3	3	
20	2	2	2	2	2	3	3	3	2	2	2	3	4	4	4	2	2	2	2	2	2	2	2	1	
21	1	2	2	2	2	2	1	1	1	1	1	1	2	2	2	2	3	3	3	1	1	1	1	1	
22	2	1	0	0	0	0	0	0	0	0	1	1	1	1	2	2	3	5	14	1	0	3	1	2	
23	5	5	5	-	***	1	2	21	42	2	4	17	3	12	10	14	4	2	2	2	2	2	2	2	
24	1	***	1	1	1	3	9	-	7	1	1	0	0	0	0	0	1	1	***	***	***	***	***		
25	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	
26	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	8	16	2	2	2	1	1	1	1	
27	1	1	1	3	2	0	0	1	1	2	1	1	1	2	2	2	1	1	1	1	1	1	1	1	
28	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
29	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	7	14	5	2	2	2	1	1	2	
30	1	5	4	5	5	5	12	4	8	11	2	2	2	2	3	3	3	3	3	3	3	3	3	3	
MEAN	3	2	1	1	3	3	2	2	3	2	2	3	2	2	2	3	3	2	3	2	2	2	1	1	

PERCENTAGE OF DATA VALID - 97.6

PERCENTAGE OF DATA INVALID - 1.0

PERCENTAGE OF DATA UNAVAILABLE - 1.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*\*\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE												UNITS - 0.01 PARTS/MILLION													
STATION - NE NO 77075												KENNEDY ST NEW SUDBURY													
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	3	2	2	2	2	2	2	2	2	3	2	3	2	3	2	2	3	3	3	6	5	3	2	2	3
2	2	2	1	2	1	1	1	1	7	1	2	-	-	2	2	2	2	2	2	2	2	2	1	2	2
3	1	2	1	1	1	1	1	1	-	2	-	-	1	2	2	4	5	4	9	3	3	3	4	3	3
4	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	5	-	3	2	2	2	2	2
5	2	2	2	2	2	2	1	2	2	2	2	3	3	3	3	3	2	2	2	2	2	1	2	2	2
6	3	2	1	2	4	5	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	2
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16	20	3	2	2	3	2	3
8	2	1	1	1	4	3	2	1	7	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	2
9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	2	2	2	1	2	2	2	2	1	1
11	1	1	1	0	0	0	0	1	10	4	3	3	3	3	3	3	23	8	7	4	****	4	2	2	4
12	3	2	2	6	4	2	4	1	2	2	2	2	3	3	3	3	4	3	3	4	3	3	3	****	3
13	***	3	3	2	2	2	2	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	1	2
14	1	1	1	1	3	4	3	5	2	3	3	3	3	3	3	2	2	2	2	2	2	2	1	1	2
15	1	0	0	0	0	0	0	0	1	1	7	20	47	24	20	13	7	4	3	3	2	2	2	1	7
16	7	3	4	2	1	1	2	4	4	5	2	4	13	8	4	3	4	3	3	3	2	2	2	4	3
17	4	4	5	5	9	6	6	5	3	5	9	28	47	8	7	4	5	4	3	4	2	3	2	2	8
18	2	2	2	2	2	3	4	14	14	5	3	3	2	2	2	2	2	2	2	3	6	3	2	2	4
19	2	1	1	1	1	1	1	2	8	10	7	7	11	10	11	4	3	6	2	2	2	2	2	3	4
20	3	2	2	2	2	2	6	6	3	2	4	5	14	6	19	24	25	3	2	2	3	3	2	2	6
21	3	5	3	3	3	3	3	3	3	3	4	4	4	4	3	3	3	4	4	5	****	****	****	****	4
22	- DATA INVALID -																								
23	- DATA INVALID -																								
24	****	****	****	****	****	****	****	****	4	5	16	32	21	20	27	16	11	11	7	6	4	2	2	2	12
25	2	2	2	2	2	1	2	2	1	0	1	1	1	1	1	2	1	1	1	1	2	1	1	1	1
26	1	1	1	1	3	5	3	5	9	5	2	2	1	2	1	1	1	1	1	2	1	2	1	1	2
27	1	3	2	5	6	5	10	2	0	0	1	1	1	1	2	2	3	8	7	6	2	2	1	1	3
28	1	2	2	1	2	2	2	2	2	2	1	1	1	1	1	1	1	2	2	3	2	2	1	0	2
29	1	0	0	0	1	2	0	1	0	1	2	1	1	1	1	1	1	1	1	1	0	1	0	0	1
30	0	0	0	0	0	0	0	1	1	2	3	4	5	5	13	16	37	37	17	3	3	2	1	1	6
31	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	2	3	2	2	3	2
MEAN	2	2	2	2	2	2	2	3	3	2	3	4	6	6	5	4	5	5	4	3	2	2	2	2	3.2

PERCENTAGE OF DATA VALID - 90.5

PERCENTAGE OF DATA INVALID - 8.6

PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*-\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH																										
POLLUTANT - SULPHUR DIOXIDE													UNITS - 0.01 PARTS/MILLION													
STATION - NE NO 77075 KENNEDY ST NEW SUDBURY													MONTH - JUN 77													
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	1	1	1	1	1	2	
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	0	0	1	
3	0	1	0	1	0	0	0	0	0	0	0	1	1	1	8	5	39	68	20	4	3	6	5	8	7	
4	9	3	1	1	1	2	2	1	2	3	5	3	8	9	3	2	2	2	3	2	2	2	1	1	3	
5	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	0	0	0	0	0	0	1	
6	0	0	0	1	2	0	0	0	1	1	1	1	2	0	4	1	2	2	2	2	1	2	1	1	1	
7	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	
8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	
9	1	0	0	1	1	1	0	0	1	1	1	1	1	1	1	0	1	0	0	0	1	1	0	1	1	
10	1	1	1	0	0	0	1	1	1	3	22	15	12	11	25	40	22	26	43	6	4	4	4	3	10	
11	2	2	2	2	1	1	2	2	4	8	3	33	119	82	71	4	3	3	3	2	2	****	2	3	15	
12	2	3	3	3	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	
13	1	1	1	1	1	2	2	13	13	****	****	3	6	5	7	6	4	8	11	10	6	3	2	2	5	
14	5	3	3	****	2	1	-	-	-	3	7	5	3	4	4	3	2	2	2	2	2	2	2	1	3	
15	-	1	2	2	1	2	2	2	2	1	-	****	1	2	4	10	10	18	20	8	2	8	10	3	5	
16	2	1	2	2	2	1	2	2	2	1	2	1	2	2	2	2	-	****	****	****	****	****	****	****	****	
17	****	****	****	****	****	****	****	****	****	4	3	1	2	2	5	7	7	1	1	2	5	4	4	0	****	
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	1	3	3	1	1	3	1	
19	2	3	4	1	1	3	1	1	1	1	0	0	0	0	1	0	1	2	1	0	0	0	0	0	1	
20	0	0	0	0	0	1	5	0	0	0	0	0	0	0	1	1	2	2	2	2	2	2	2	2	1	
21	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	
23	5	2	2	2	3	6	4	5	5	10	24	20	10	7	9	2	2	2	2	2	2	2	3	2	6	
24	2	2	2	2	2	2	2	2	2	3	4	4	3	17	21	6	2	1	2	3	6	8	3	2	4	
25	5	2	2	-	-	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	
26	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	
27	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	
28	3	2	3	2	2	2	3	-	3	3	3	3	3	3	3	3	4	4	5	4	4	5	5	5	3	
29	5	5	5	****	****	4	2	2	1	4	6	20	13	4	2	3	3	3	2	2	2	2	2	2	4	
30	1	2	1	3	1	7	6	2	8	1	2	2	2	3	3	4	2	4	4	4	****	****	****	****	3	
MEAN	2	2	2	1	1	2	2	2	2	2	4	5	7	6	7	4	4	6	5	3	2	2	2	2	3	

PERCENTAGE OF DATA VALID - 87.5

PERCENTAGE OF DATA INVALID - 11.3

PERCENTAGE OF DATA UNAVAILABLE - 1.3

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*-\* INDICATES DATA IS UNAVAILABLE

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77075

KENNEDY ST NEW SUDBURY

MONTH - JUL 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	2	1	3	3	3	5	8	4	1	1	1	2	3	3	2	3	4	1	2	1	1	1	2
2	1	1	1	1	1	1	1	1	1	1	1	1	2	3	2	2	3	7	17	7	3	2	3	10	3
3	4	3	10	2	5	2	1	1	1	2	3	3	3	***	4	***	4	***	***	2	-	***	***	3	3
4	5	***	4	3	3	3	3	3	3	1	1	11	10	13	21	34	24	10	11	9	9	7	6	5	9
5	5	5	5	7	7	11	5	3	3	2	0	0	0	***	***	2	2	2	2	2	2	2	2	2	3
6	2	2	2	2	2	2	2	2	***	2	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1
7	0	0	1	***	***	1	0	-	1	2	0	1	1	1	1	1	1	1	1	1	1	0	1	0	1
8	1	0	1	1	6	1	3	6	1	0	1	1	12	10	8	27	18	24	7	1	2	1	2	1	6
9	1	1	1	1	1	1	0	1	0	0	1	1	1	1	1	0	0	1	1	0	0	1	1	0	1
10	0	***	0	0	0	0	0	0	0	1	0	0	1	1	2	5	1	3	1	1	1	0	0	0	1
11	0	0	0	0	0	0	0	0	0	1	2	2	2	2	2	2	2	2	2	2	2	3	2	2	1
12	1	1	2	2	2	2	2	2	2	3	3	2	3	3	3	3	3	3	3	2	2	2	3	4	2
13	3	2	3	5	5	2	2	2	2	2	2	2	2	2	2	2	2	2	***	2	2	1	1	1	2
14	1	1	0	0	0	1	1	1	1	2	2	-	10	2	2	1	2	2	2	2	2	2	2	2	2
15	2	3	2	2	3	6	4	1	8	2	2	2	2	1	0	0	0	0	1	7	8	3	7	7	3
16	1	1	2	2	1	1	2	2	4	4	3	2	17	11	32	29	34	16	4	3	***	1	1	1	8
17	1	1	1	1	1	1	3	3	2	2	2	2	6	7	2	1	1	1	1	1	1	1	1	1	2
18	4	5	1	2	1	4	2	2	1	-	1	***	1	1	11	2	1	3	5	4	1	1	1	1	3
19	2	2	1	1	2	2	4	7	12	8	4	32	4	2	3	6	2	2	2	2	2	2	1	2	4
20	1	2	2	2	4	9	4	2	4	4	9	11	6	13	7	5	5	8	5	3	3	3	2	2	5
21	2	2	2	2	2	2	2	1	2	2	1	2	2	2	2	1	2	2	2	2	2	1	1	2	2
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	-	1	1	1	1	3	1
23	1	0	0	1	1	1	2	1	1	5	9	46	31	16	9	18	8	13	4	6	9	7	8	4	8
24	3	3	8	17	8	3	3	3	2	2	2	2	2	3	3	3	2	2	6	2	2	***	4	2	4
25	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	0	1	1	0	-	-	0	0	1
27	0	0	1	0	0	2	6	5	0	1	1	4	37	42	51	12	23	8	9	3	6	2	1	1	9
28	2	2	2	1	2	2	1	2	2	2	2	2	2	2	2	0	0	0	0	2	1	2	1	2	2
29	2	2	3	3	3	4	4	3	3	4	3	4	3	3	3	3	3	3	3	3	2	2	2	2	3
30	2	2	2	2	2	2	2	2	2	2	2	2	2	9	17	8	2	2	1	2	1	1	1	1	3
31	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	5	10	3	3	3	4	4	2	3
MEAN	2	2	2	2	2	2	2	2	2	2	2	2	5	6	6	7	6	5	5	3	3	2	2	2	3.2

PERCENTAGE OF DATA VALID - 96.6

PERCENTAGE OF DATA INVALID - 2.3

PERCENTAGE OF DATA UNAVAILABLE - 1.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*-\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LE-S THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77075

KENNEDY ST NEW SUDBURY

MONTH - AUG 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	2	3	5	2	2	2	2	2	2	1	1	2	1	2	1	2	2	2	2	1	1	1	1	2
2	1	1	1	1	1	3	1	1	2	3	6	4	1	1	6	2	1	1	1	1	2	1	2	2	2
3	2	2	2	2	2	1	2	3	6	13	3	2	2	2	2	2	2	2	2	2	1	1	1	1	3
4	1	2	2	1	1	1	1	2	5	7	2	6	37	15	26	4	2	3	3	3	3	3	3	3	6
5	3	3	3	4	4	3	4	3	2	***	4	4	12	4	13	4	3	5	5	5	2	1	***	4	4
6	***	1	1	1	1	1	1	1	1	1	1	1	1	8	12	10	2	18	2	1	1	2	10	5	4
7	1	1	2	4	2	1	0	1	2	3	1	1	0	1	1	1	3	4	1	1	1	1	1	1	1
8	1	1	3	7	6	12	7	3	4	2	0	1	1	3	1	1	1	1	1	1	1	1	1	1	3
9	0	1	0	1	1	0	0	0	0	6	12	13	5	4	32	12	2	2	1	2	2	5	4	2	4
10	2	2	2	2	1	1	1	1	1	1	1	***	1	1	2	1	1	1	1	1	1	1	1	2	1
11	1	2	1	2	3	2	1	1	1	12	44	23	29	11	16	13	26	15	3	1	1	1	1	1	9
12	1	1	1	1	1	1	1	1	2	11	37	12	2	1	2	2	2	3	3	3	***	***	4	3	4
13	4	4	4	4	***	***	***	***	7	18	6	4	5	2	2	2	8	3	2	2	2	7	2	2	5
14	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	2	2	1	1	1	1
15	1	2	2	2	2	2	1	1	1	0	3	2	0	2	0	1	1	0	0	0	0	0	0	0	1
16	0	2	9	1	0	1	1	0	1	4	1	2	-	2	1	1	0	0	0	1	1	7	2	2	2
17	2	1	1	1	1	1	1	1	1	1	1	1	1	1	7	3	2	2	1	2	1	2	1	1	2
18	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	5	3	1	1
19	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	1	1	0	0	0	0	0	0	1
20	0	0	0	0	0	0	0	0	0	0	1	0	0	7	25	30	5	1	0	0	0	0	0	0	3
21	0	1	1	1	0	0	1	0	1	1	1	1	1	1	2	1	1	2	1	1	0	1	0	1	1
22	1	1	1	1	1	1	1	***	1	***	1	1	1	1	1	21	1	1	1	1	1	1	2	1	2
23	2	4	1	2	1	1	1	1	1	1	1	1	1	0	1	1	1	0	0	0	0	0	0	0	1
24	0	0	0	0	0	0	0	0	***	***	2	2	2	2	1	1	1	1	1	2	1	1	1	1	1
25	1	1	1	1	1	1	1	***	***	1	1	1	1	1	16	21	7	1	1	2	2	1	1	1	3
26	1	1	1	1	1	1	0	1	1	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	1
27	3	3	3	4	4	4	4	4	3	3	3	2	2	2	2	2	3	3	3	3	3	3	3	3	3
28	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	5	5	4	***	2	3
29	***	***	3	2	2	3	2	2	1	0	0	1	1	0	0	1	1	0	0	0	1	0	0	0	1
30	1	0	0	0	0	0	1	17	1	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	1
31	1	0	0	0	1	0	0	0	0	1	2	2	2	4	4	4	4	4	4	2	***	3	3	***	2
MEAN	1	2	2	2	2	2	1	2	2	3	5	3	4	3	6	5	3	3	2	1	1	2	2	1	2.4

PERCENTAGE OF DATA VALID - 97.0

PERCENTAGE OF DATA INVALID - 2.8

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*-\* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LE-S THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - NE NO 77075 KENNEDY ST NEW SUDBURY		MONTH - SEP 77																							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	****	2	***	2	****	2	3	4	2	4	1	1	2	2	1	2	1	****	1	1	1	2	1	1	2
2	1	1	1	2	3	4	4	3	1	1	1	1	1	1	1	3	4	7	5	9	12	6	4	2	3
3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	8	4	3	2
4	4	1	1	1	2	1	1	1	4	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
5	1	1	1	3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	0	1	1	1	1	1	1	2	2	2	2	2	2	2	1	1	1	1	1
7	1	0	1	2	6	7	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1
8	0	0	0	0	2	2	1	2	1	***	1	1	1	1	1	1	1	1	1	1	***	0	1	0	0
9	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1
10	9	6	6	4	4	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11	0	0	0	1	0	0	0	0	0	0	0	1	0	0	2	7	0	1	1	0	0	1	0	0	1
12	0	0	0	1	1	0	1	2	0	1	1	1	1	1	4	2	3	22	1	2	1	-	-	1	2
13	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	8	1	0	0	1	2	2	3	1
14	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	2	3	1
15	0	0	0	0	0	0	0	2	4	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1
16	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	0	1	0	0	0	1	1	1	1	1	2	1	2	1	1	1	1	1
18	3	1	1	2	6	7	8	4	2	3	1	2	2	8	7	6	9	8	8	5	2	1	2	4	1
19	1	1	1	1	1	1	1	1	1	1	2	4	***	1	1	1	1	1	0	1	1	1	1	1	4
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	0	0	1	1
21	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1
22	0	0	1	0	0	1	0	0	0	2	2	2	2	4	5	4	3	3	2	8	16	15	10	6	4
23	4	7	9	6	5	4	3	2	1	1	1	1	1	2	1	2	1	2	1	1	1	1	1	0	2
24	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	1	1
25	2	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	1	1
26	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1
29	1	1	1	1	0	1	1	0	0	1	1	4	3	1	2	1	1	1	1	1	1	1	0	1	1
30	1	1	1	1	1	2	1	1	1	1	2	2	1	1	1	1	1	1	1	0	1	1	1	1	1
MEAN	1	1	1	1	2	2	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1.5

PERCENTAGE OF DATA VALID - 97.8 PERCENTAGE OF DATA INVALID - 1.5 PERCENTAGE OF DATA UNAVAILABLE - 0.7

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
 2. \*\*\* INDICATES DATA IS UNAVAILABLE  
 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLION																							
STATION - NE NO 77075 KENNEDY ST NEW SUDBURY		MONTH - OCT 77																							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	2	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1	1	1	2	1	2	2	1	1	1	2	2	1	1	1	1	1
6	3	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	0	0	0	0	1	1	1	1	1	1	1	2	1	2	1	2	2	2	1	1	***	1	1	1	1
9	2	2	2	2	1	1	2	1	1	1	2	1	2	1	2	1	2	1	1	1	1	1	1	2	1
10	1	2	2	1	1	***	2	2	2	1	2	12	22	10	3	2	2	2	2	2	2	1	2	2	3
11	2	2	2	2	2	2	2	2	1	1	1	1	1	2	1	***	1	0	6	0	0	0	0	0	1
12	1	0	0	1	1	6	3	6	***	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1
13	0	0	1	1	0	1	0	1	0	0	8	6	3	25	96	23	8	4	2	2	1	1	1	1	8
14	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1	0	0	0	0	0	0	0	1	2	2	2	2	2	2	10	32	4	9	3	1	1	1	0	1
18	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	2	2	2	4	3
19	5	5	3	25	3	3	2	3	2	2	2	2	10	9	3	3	3	13	13	10	8	5	3	3	6
20	2	2	2	2	2	1	1	2	2	7	12	***	3	7	20	10	2	3	2	2	2	1	2	1	4
21	1	1	1	1	1	1	2	3	1	6	4	11	3	3	6	3	4	4	4	7	6	3	3	2	3
22	1	2	1	1	2	2	2	2	1	2	2	2	1	1	1	1	1	1	1	1	2	1	1	1	1
23	1	1	1	1	1	1	1	1	1	2	3	3	1	1	1	1	1	1	0	0	1	1	0	0	1
24	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	1
25	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1
26	2	3	6	5	5	16	10	6	6	3	6	5	2	***	7	3	3	3	3	3	3	2	3	2	2
27	0	0	0	0	1	1	0	0	0	0	0	0	0	0	6	3	1	1	1	1	1	0	0	0	4
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	0	1
29	0	1	0	0	0	0	0	1	0	0	0	2	7	1	1	0	1	13	17	4	7	0	0	1	3
30	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	2	2	2	1	1
31	0	0	0	0	0	0	0	0	0	0	0	1	2	3	0	3	3	2	2	2	2	3	2	2	1
MEAN	1	1	2	2	1	2	1	1	1	1	2	2	3	2	4	5	3	2	3	2	2	1	1	1	2.0

PERCENTAGE OF DATA VALID - 98.7 PERCENTAGE OF DATA INVALID - 1.2 PERCENTAGE OF DATA UNAVAILABLE - 0.1

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE  
 2. \*\*\* INDICATES DATA IS UNAVAILABLE  
 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77075 KENNEDY ST NEW SUDBURY

MONTH - NOV 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	2	3	3	3	3	2	2	2	1	2	2	2	2	2	1	1	1	1	1	1	2	1	1	2
2	2	2	2	-	---	2	2	2	2	1	2	3	1	3	3	2	3	2	2	2	2	2	2	2	2
3	2	2	2	1	2	2	2	0	2	1	2	0	2	2	0	2	2	2	2	2	2	2	2	2	2
4	1	1	1	2	2	2	2	0	2	1	1	1	1	1	2	2	2	2	2	2	2	1	1	1	1
5	1	1	1	1	2	2	2	3	3	1	1	1	1	1	1	1	1	0	1	1	0	1	2	1	1
6	0	1	0	1	2	1	1	1	1	4	1	2	3	1	1	1	2	2	2	3	4	14	2	1	2
7	1	1	2	1	1	1	1	0	0	1	1	1	1	1	1	0	1	0	0	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1
9	0	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0
10	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	0	2	2	2	2	2	2	2	2	1
11	1	2	2	2	2	2	2	1	1	2	2	0	2	0	2	2	2	2	0	2	2	2	2	2	2
12	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	2	2	2	2	2	1	2	2	2	2
13	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	1	2	4	5	9	2
14	12	5	4	3	8	2	2	6	3	2	7	7	8	6	4	1	1	1	1	1	1	1	1	1	4
15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	1	1	0	0	0	1	1	1	1	1	1	1	1	1	2	3	1	0	4	1	1	1	1	1	1
17	0	0	1	0	1	0	0	0	0	0	0	2	11	10	6	2	0	1	1	1	1	1	1	1	2
18	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	2	3	11	21	19	4	1	1	1	1	1	1	1	1	3
22	1	2	2	1	2	2	2	1	1	1	1	3	14	5	2	1	1	1	1	1	1	1	1	1	2
23	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	12	2	1	2
24	1	1	1	2	1	1	2	5	8	4	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2
25	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	6	2
26	7	3	2	1	2	1	1	1	1	1	1	0	1	0	1	1	1	1	1	0	0	1	1	1	1
27	1	1	1	1	1	1	1	1	1	1	1	1	1	3	14	57	30	15	8	3	1	1	2	1	6
28	1	6	2	3	7	11	2	9	8	6	13	11	12	9	13	8	2	1	1	1	1	1	2	2	6
29	2	1	1	1	2	3	6	-	-	4	1	3	2	4	4	2	2	2	2	2	2	2	2	2	2
30	2	-	3	2	2	2	2	2	-	-	1	2	2	2	2	2	2	2	2	1	1	2	1	1	2
MEAN	2	1	1	1	2	2	2	2	2	2	2	2	3	3	4	3	2	1	1	1	1	2	1	2	1.9

PERCENTAGE OF DATA VALID - 96.3

PERCENTAGE OF DATA INVALID - 2.2

PERCENTAGE OF DATA UNAVAILABLE - 1.5

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77075 KENNEDY ST NEW SUDBURY

MONTH - DEC 77

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	1	1	1	1	1	0	0	0	0	0	0	-	0	0	1	3	4	1	1	5	2	2	1
2	1	1	1	6	6	6	6	6	3	1	2	2	5	4	3	2	3	2	2	1	0	3	3	1	3
3	2	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
5	1	1	1	3	6	9	12	3	3	1	1	2	1	1	1	1	2	2	3	5	4	2	2	2	3
6	2	2	2	1	2	3	3	2	1	1	0	1	0	1	6	1	1	1	1	1	1	1	1	1	2
7	1	1	1	1	1	1	1	1	1	1	0	0	1	-	1	1	1	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	2	1	1	1	3	1	2	1	1	1	1	2	1	1	1	2	1	1	1
9	25	6	2	2	1	1	1	2	1	1	2	3	1	1	1	1	1	1	1	1	1	1	1	1	2
10	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	2	2	2	2	0	2	3	1	1
11	1	1	2	2	2	2	2	2	1	3	1	1	2	2	5	8	4	3	3	4	4	4	4	3	3
12	5	8	8	7	7	5	4	3	3	3	2	3	2	3	3	3	3	2	2	2	2	2	2	2	4
13	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
14	2	2	2	3	2	2	6	7	4	6	3	11	5	2	3	4	2	2	2	1	1	1	0	3	3
15	1	1	1	2	4	4	3	2	2	5	4	2	0	0	0	0	0	0	1	4	3	5	5	5	2
16	4	3	2	2	1	0	1	1	0	0	1	2	6	4	2	2	2	3	2	3	19	22	2	5	6
17	18	31	14	9	23	32	15	12	4	3	1	3	2	3	3	3	2	2	2	2	2	2	2	2	8
18	2	2	2	2	2	2	2	1	1	1	1	2	2	2	1	-	-	2	2	2	1	2	2	2	2
19	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
20	2	2	2	2	2	2	3	3	2	2	3	2	1	1	1	1	1	1	1	1	2	1	2	1	2
21	2	1	2	1	2	1	1	2	2	2	2	2	2	2	2	0	1	2	3	3	1	1	2	0	2
22	1	1	1	1	2	6	3	2	3	2	2	1	2	1	1	1	1	2	3	0	0	0	0	1	2
23	1	2	2	2	2	2	2	2	1	2	1	1	1	2	2	3	3	1	2	1	4	3	1	2	2
24	1	1	1	1	1	2	1	1	1	1	1	1	1	1	2	2	1	1	1	1	2	3	3	1	1
25	3	3	2	3	3	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	4	5	2	2
27	9	9	8	7	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	3	3	3
28	6	8	8	6	6	4	3	2	1	1	1	1	1	1	1	2	1	1	1	2	1	1	1	1	3
29	2	2	1	1	2	1	2	2	1	2	2	2	3	4	5	5	4	4	4	4	3	3	4	2	3
30	2	2	1	2	2	2	2	1	2	1	1	3	2	2	2	2	2	1	1	1	1	1	1	1	2
31	1	1	2	1	2	2	2	1	2	2	2	2	3	3	6	4	4	3	4	5	5	6	6	-	3
MEAN	3	3	3	3	3	3	3	2	2	2	1	2	2	2	2	2	2	2	2	2	2	3	3	3	2.3

PERCENTAGE OF DATA VALID - 99.1

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.7

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77075 KENNEDY ST NEW SUDBURY

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	1.9	6	14
FEB	28	1.7	3	16
MAR	31	2.3	5	35
APR	30	2.2	9	64
MAY	29	3.2	12	47
JUN	25	3.3	15	119
JUL	31	3.2	9	51
AUG	31	2.4	9	44
SEP	30	1.5	4	22
OCT	31	2.0	8	96
NOV	30	1.9	6	57
DEC	31	2.3	8	32
YEAR	358	2.3	15	119

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

## MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1977

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77075 KENNEDY ST NEW SUDBURY

MONTH	00 TO 04	05 TO 10	11 TO 14	15 TO 25	26 TO 39	40 & OVER	TOTAL
JAN	686	42	8	0	0	0	736
FEB	629	24	1	1	0	0	655
MAR	662	55	8	8	3	0	736
APR	643	39	9	6	3	3	703
MAY	581	60	10	15	5	2	673
JUN	546	57	6	12	3	6	630
JUL	612	72	12	12	8	3	719
AUG	654	36	13	11	7	1	722
SEP	665	35	1	3	0	0	704
OCT	679	39	6	8	1	1	734
NOV	649	27	12	3	1	1	693
DEC	673	51	4	7	2	0	737
YEAR	7679	537	90	86	33	17	8442

## FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	ARITH MEAN
96.4	0	0.0	0.4	0.9	1.6	3.8	6.5	12.3	19.5	119	2.3



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